

Point cloud metric	Height threshold (m)	Return type	Description	Data type	Link
n	0	All returns	Number of returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmax	0	All returns	Maximum return height (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmin	0	All returns	Minimum return height (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmean	0	All returns	Mean of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zvar	0	All returns	Variance of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zsd	0	All returns	Standard deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zcv	0	All returns	Coefficient of variation of return heights (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zskew	0	All returns	Skewness of return heights	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zkurt	0	All returns	Kurtosis of return heights	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
n_return_1	0	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_2	0	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_3	0	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_4	0	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_5	0	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_6	0	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_7	0	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_8	0	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_9	0	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_first	0	All returns	Number of first returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
n_intermediate	0	All returns	Number of intermediate returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
n_last	0	All returns	Number of last returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html

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n_single	0	All returns	Number of single returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
n_multiple	0	All returns	Number of multiple returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_first	0	All returns	Percentage of returns that are first returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_intermediate	0	All returns	Percentage of returns that are intermediate returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_last	0	All returns	Percentage of returns that are last returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_single	0	All returns	Percentage of returns that are single returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_multiple	0	All returns	Percentage of returns that are multiple returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
ratio_last_first	0	All returns	Ratio of last returns to first returns	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
ratio_intermediate_first	0	All returns	Ratio of intermediate returns to first returns	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
ratio_multiple_single	0	All returns	Ratio of multiple returns to single returns	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
zq1	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq5	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq10	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq15	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq20	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq25	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq30	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq35	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq40	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq45	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq50	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq55	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html

zq60	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq65	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq70	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq75	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq80	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq85	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq90	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq95	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq99	0	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
pzabovemean	0	All returns	Percentage of returns above mean return height (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percabove.html
pzabove2	0	All returns	Percentage of returns above 2 m (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percabove.html
pzabove5	0	All returns	Percentage of returns above 5 m (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percabove.html
ziqr	0	All returns	Interquartile range (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zMADmean	0	All returns	Mean absolute deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zMADmedian	0	All returns	Median absolute deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
CRR	0	All returns	Canopy relief ratio	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zentropy	0	All returns	A normalized Shannon vertical complexity index	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
VCI	0	All returns	Vertical complexity index	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zpcum1	0	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum2	0	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum3	0	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum4	0	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html

zpcum5	0	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum6	0	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum7	0	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum8	0	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum9	0	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
L1	0	All returns	L-moment, mean	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L2	0	All returns	L-moment, variance	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L3	0	All returns	L-moment, skewness	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L4	0	All returns	L-moment, kurtosis	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lskew	0	All returns	L-moment ratio, skewness	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lkurt	0	All returns	L-moment ratio, kurtosis	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lcoefvar	0	All returns	L-moment ratio, coefficient of variation	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
lad_min	0	All returns	Leaf area density, minimum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_max	0	All returns	Leaf area density, maximum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_mean	0	All returns	Leaf area density, mean	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_cv	0	All returns	Leaf area density, coefficient of variation	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_sum	0	All returns	Leaf area density, sum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
pz_below_0	0	All returns	Percentage of points calculated for a set of horizontal layers (≤ 0) (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_0_1	0	All returns	Percentage of points calculated for a set of horizontal layers (> 0 & ≤ 1) (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_1_2	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_2_3	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_3_4	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html

pz_4_5	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_5_6	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_6_7	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_7_8	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_8_9	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_9_10	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_10_15	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_15_20	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_20_25	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_25_30	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_30_35	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_35_40	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_40_45	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_45_50	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_above_50	0	All returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
rumple	0	All returns	Ratio of 3D canopy surface area to 2D terrain surface area	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_rumple.html
kde_peaks_count	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_elev	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_elev	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_elev	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak4_elev	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_value	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html

kde_peak2_value	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_value	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak4_value	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_diff	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_diff	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_diff	0	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
n_above2	2	All returns	Number of returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmax_above2	2	All returns	Maximum return height (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmin_above2	2	All returns	Minimum return height (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmean_above2	2	All returns	Mean of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zvar_above2	2	All returns	Variance of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zsd_above2	2	All returns	Standard deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zcv_above2	2	All returns	Coefficeint of variation of return heights (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zskew_above2	2	All returns	Skewness of return heights	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zkurt_above2	2	All returns	Kurtosis of return heights	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
n_return_1_above2	2	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_2_above2	2	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_3_above2	2	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_4_above2	2	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_5_above2	2	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_6_above2	2	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_7_above2	2	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html

n_return_8_above2	2	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_return_9_above2	2	All returns	Number of returns by each return number	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo2.html
n_first_above2	2	All returns	Number of first returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
n_intermediate_above2	2	All returns	Number of intermediate returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
n_last_above2	2	All returns	Number of last returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
n_single_above2	2	All returns	Number of single returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
n_multiple_above2	2	All returns	Number of multiple returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_first_above2	2	All returns	Percentage of returns that are first returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_intermediate_above2	2	All returns	Percentage of returns that are intermediate returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_last_above2	2	All returns	Percentage of returns that are last returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_single_above2	2	All returns	Percentage of returns that are single returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
p_multiple_above2	2	All returns	Percentage of returns that are multiple returns (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
ratio_last_first_above2	2	All returns	Ratio of last returns to first returns	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
ratio_intermediate_first_above2	2	All returns	Ratio of intermediate returns to first returns	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
ratio_multiple_single_above2	2	All returns	Ratio of multiple returns to single returns	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_echo.html
zq1_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq5_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq10_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq15_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq20_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq25_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq30_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html

zq35_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq40_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq45_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq50_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq55_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq60_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq65_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq70_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq75_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq80_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq85_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq90_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq95_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq99_above2	2	All returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
ziqr_above2	2	All returns	Interquartile range (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zMADmean_above2	2	All returns	Mean absolute deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zMADmedian_above2	2	All returns	Median absolute deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
CRR_above2	2	All returns	Canopy relief ratio	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zentropy_above2	2	All returns	A normalized Shannon vertical complexity index	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
VCI_above2	2	All returns	Vertical complexity index	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zpcum1_above2	2	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum2_above2	2	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html

zpcum3_above2	2	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum4_above2	2	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum5_above2	2	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum6_above2	2	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum7_above2	2	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum8_above2	2	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum9_above2	2	All returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
L1_above2	2	All returns	L-moment, mean	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L2_above2	2	All returns	L-moment, variance	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L3_above2	2	All returns	L-moment, skewness	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L4_above2	2	All returns	L-moment, kurtosis	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lskew_above2	2	All returns	L-moment ratio, skewness	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lkurt_above2	2	All returns	L-moment ratio, kurtosis	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lcoefvar_above2	2	All returns	L-moment ratio, coefficient of variation	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
lad_min_above2	2	All returns	Leaf area density, minimum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_max_above2	2	All returns	Leaf area density, maximum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_mean_above2	2	All returns	Leaf area density, mean	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_cv_above2	2	All returns	Leaf area density, coefficient of variation	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_sum_above2	2	All returns	Leaf area density, sum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
rumple_above2	2	All returns	Ratio of 3D canopy surface area to 2D terrain surface area	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_rumple.html
kde_peaks_count_above2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_elev_above2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html

kde_peak2_elev_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_elev_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak4_elev_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_value_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_value_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_value_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak4_value_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_diff_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_diff_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_diff_bove2	2	All returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
zmax_first	0	First returns	Maximum return height (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmin_first	0	First returns	Minimum return height (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmean_first	0	First returns	Mean of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zvar_first	0	First returns	Variance of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zsd_first	0	First returns	Standard deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zcv_first	0	First returns	Coefficeient of variation of return heights (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zskew_first	0	First returns	Skewness of return heights	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zkurt_first	0	First returns	Kurtosis of return heights	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zq1_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq5_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq10_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq15_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html

zq20_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq25_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq30_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq35_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq40_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq45_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq50_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq55_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq60_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq65_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq70_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq75_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq80_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq85_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq90_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq95_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
zq99_first	0	First returns	Height percentile (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percentiles.html
pzabovemean_first	0	First returns	Percentage of returns above mean return height (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percabove.html
pzabove2_first	0	First returns	Percentage of returns above 2 m (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percabove.html
pzabove5_first	0	First returns	Percentage of returns above 5 m (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_percabove.html
ziqr_first	0	First returns	Interquartile range (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zMADmean_first	0	First returns	Mean absolute deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html

zMADmedian_first	0	First returns	Median absolute deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
CRR_first	0	First returns	Canopy relief ratio	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zentropy_first	0	First returns	A normalized Shannon vertical complexity index	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
VCI_first	0	First returns	Vertical complexity index	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zpcum1_first	0	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum2_first	0	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum3_first	0	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum4_first	0	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum5_first	0	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum6_first	0	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum7_first	0	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum8_first	0	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum9_first	0	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
L1_first	0	First returns	L-moment, mean	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L2_first	0	First returns	L-moment, variance	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L3_first	0	First returns	L-moment, skewness	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L4_first	0	First returns	L-moment, kurtosis	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lskew_first	0	First returns	L-moment ratio, skewness	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lkurt_first	0	First returns	L-moment ratio, kurtosis	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lcoefvar_first	0	First returns	L-moment ratio, coefficient of variation	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
lad_min_first	0	First returns	Leaf area density, minimum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_max_first	0	First returns	Leaf area density, maximum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html

lad_mean_first	0	First returns	Leaf area density, mean	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_cv_first	0	First returns	Leaf area density, coefficient of variation	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_sum_first	0	First returns	Leaf area density, sum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
pz_below_0_first	0	First returns	Percentage of points calculated for a set of horizontal layers (≤ 0) (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_0_1_first	0	First returns	Percentage of points calculated for a set of horizontal layers (> 0 & ≤ 1) (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_1_2_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_2_3_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_3_4_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_4_5_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_5_6_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_6_7_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_7_8_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_8_9_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_9_10_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_10_15_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_15_20_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_20_25_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_25_30_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_30_35_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_35_40_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_40_45_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
pz_45_50_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html

pz_above_50_first	0	First returns	Percentage of points calculated for a set of horizontal layers (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_interval.html
rumple_first	0	First returns	Ratio of 3D canopy surface area to 2D terrain surface area	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_rumple.html
kde_peaks_count_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_elev_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_elev_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_elev_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak4_elev_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_value_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_value_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_value_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak4_value_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_diff_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_diff_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_diff_first	0	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
n_above2_first	2	First returns	Number of returns	Long integer	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmax_above2_first	2	First returns	Maximum return height (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmin_above2_first	2	First returns	Minimum return height (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zmean_above2_first	2	First returns	Mean of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zvar_above2_first	2	First returns	Variance of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zsd_above2_first	2	First returns	Standard deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zcv_above2_first	2	First returns	Coefficeint of variation of return heights (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html
zskew_above2_first	2	First returns	Skewness of return heights	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_basic.html

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ziqr_above2_first	2	First returns	Interquartile range (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zMADmean_above2_first	2	First returns	Mean absolute deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zMADmedian_above2_first	2	First returns	Median absolute deviation of return heights (m)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
CRR_above2_first	2	First returns	Canopy relief ratio	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zentropy_above2_first	2	First returns	A normalized Shannon vertical complexity index	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
VCI_above2_first	2	First returns	Vertical complexity index	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_dispersion.html
zpcum1_above2_first	2	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum2_above2_first	2	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum3_above2_first	2	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum4_above2_first	2	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum5_above2_first	2	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum6_above2_first	2	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum7_above2_first	2	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum8_above2_first	2	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
zpcum9_above2_first	2	First returns	Cumulative proportion of returns found in nine equal height intervals (%)	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_canopydensity.html
L1_above2_first	2	First returns	L-moment, mean	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L2_above2_first	2	First returns	L-moment, variance	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L3_above2_first	2	First returns	L-moment, skewness	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
L4_above2_first	2	First returns	L-moment, kurtosis	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lskew_above2_first	2	First returns	L-moment ratio, skewness	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lkurt_above2_first	2	First returns	L-moment ratio, kurtosis	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html
Lcoefvar_above2_first	2	First returns	L-moment ratio, coefficient of variation	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_Lmoments.html

lad_min_above2_first	2	First returns	Leaf area density, minimum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_max_above2_first	2	First returns	Leaf area density, maximum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_mean_above2_first	2	First returns	Leaf area density, mean	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_cv_above2_first	2	First returns	Leaf area density, coefficient of variation	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
lad_sum_above2_first	2	First returns	Leaf area density, sum	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_lad.html
rumple_above2_first	2	First returns	Ratio of 3D canopy surface area to 2D terrain surface area	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_rumple.html
kde_peaks_count_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_elev_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_elev_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_elev_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak4_elev_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_value_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_value_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_value_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak4_value_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak1_diff_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak2_diff_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html
kde_peak3_diff_above2_first	2	First returns	Kernel density estimation metric	Float	https://ptompalski.github.io/lidRmetrics/reference/metrics_kde.html