Comparing remotely sensed Pictometry® Web-based height estimates with in situ clinometer and laser range finder height estimates (Abstract)

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Comparing remotely sensed Pictometry® Web-based height estimates with *in situ* clinometer and laser range finder height estimates

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**Abstract.** Heights of 30 light poles were measured with a telescopic height pole. Clinometer and laser range finder *in situ* estimated light pole height was compared to Pictometry® estimated light pole height using hyperspatial 4-in. (10.2-cm) multispectral imagery within a Web-based interface. Average percent agreement between light pole height and clinometer and laser range finder estimated that light pole height ranged from 3.97% to 3.79% for clinometer and laser range finder estimated light pole height, respectively. Average percent agreement between light pole height and Pictometry® estimated light pole height at image magnification factors of 100%, 125%, 150%, 200%, and 300% magnification ranged from 1.77% to 2.39%. Root-mean-square error (RMSE) between light pole height and clinometer and laser range finder estimated that light pole height ranged from 0.22 to 0.20 m for clinometer and laser range finder estimated light pole height, respectively. RMSE between light pole height and Pictometry® estimated light pole height ranged from 0.10 to 0.14 m. An analysis of variance between absolute errors of light pole height estimate by different techniques indicated that Pictometry® was significantly more accurate than both clinometer and laser range finder light pole height estimates.
Figures in this Article
Topics

Laser range finders; Interfaces

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