



Patuxent Science Meeting 2004 Poster Abstract

Application of NASA's Experimental Advanced Airborne Research Laser(EAARL) LIDAR system for Phragmites mapping in support of a Wildland Urban Interface (WUI) project at Prime Hook NWR.

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The primary focus of the WUI project is the reduction of hazardous fuels in the form of Phragmites, on refuge and in other areas adjacent to local beach communities. The project goal is to identify and map Phragmites-dominated areas and then monitor vegetative response to treatments using remote sensing techniques and field measurements. All mapping and monitoring data plus landscape analysis (comparing delineated expansion/contraction and/or elimination of Phragmites over time) are being done within a GIS working model using ArcMap v. 8.1 as the base software. The primary remote sensing tool being used is NASA's Experimental Advanced Airborne Research Laser (EAARL) LIDAR system. The poster will focus on characteristics of the system, application of the system to Phragmites mapping at Prime Hook NWR, and inter-agency partnerships.