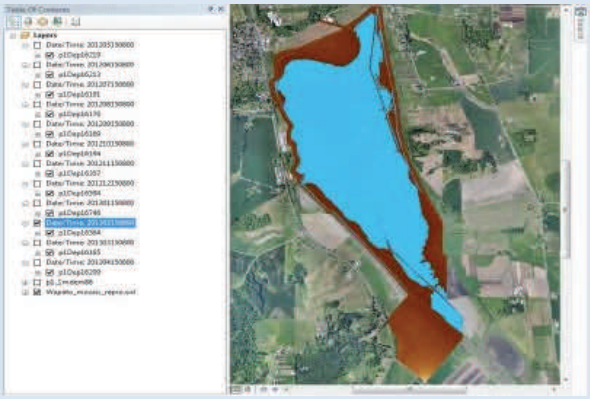
The PSU Geospatial Information Society / ASPRS Student Chapter

Colloquium

Erin Stockenberg

US Fish & Wildlife Service

Wapato Lake National Wildlife Refuge: Refuge Restoration and Resource Management Planning Using LiDAR and ArcGIS to Model Lake Inundation Across a Time Series



To identify options for restoration planning and management of the Refuge, a high resolution LiDAR dataset was captured in 2011 and processed into a digital elevation model (DEM). The DEM model was then used as an input into the USGS Shoreline Management Tool (ArcMap), which processed the DEM and river-stage information, to produce raster outputs of water depth, surface area, and volume across the Refuge's lakebed. These grids will be used to better understand potential habitat based on water depths, inundation extent, and the duration of wetness under different infrastructure, and water management regimes, and a variety of river stage heights.

3:00 – 4:00 PM
Friday, 7 March, 2014
Cramer Hall, Room 413

Free refreshments! All are welcome.

The Geospatial Information Society is a student chapter of the ASPRS. We host monthly colloquia, social events, and other activities to promote professional development and education related to geospatial technology. We receive support from Portland State University, and the ASPRS Columbia River Region. For more information, or to join, visit: **http://community.pdx.edu/asprs/**

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