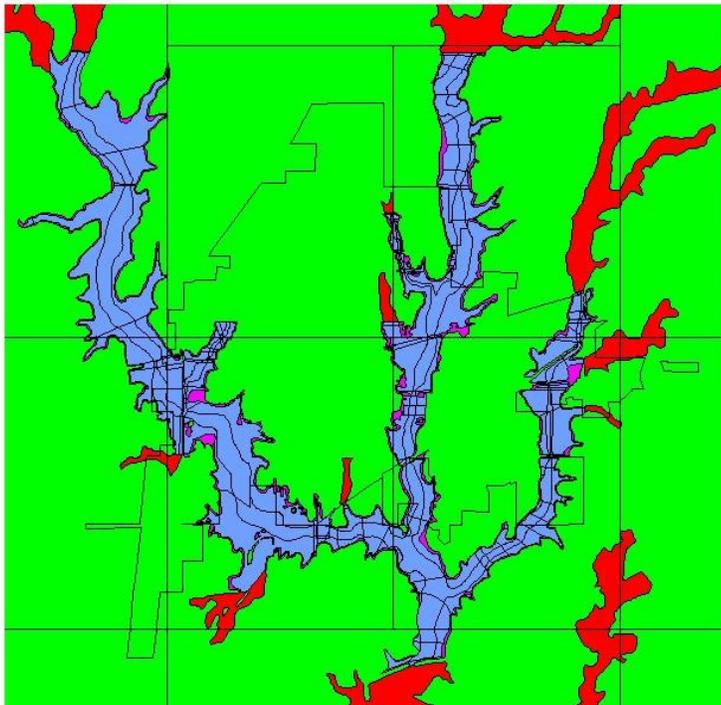


1. Flood Mapping

Project

The FEMA (Federal Emergency Management Agency) publishes flood hazard maps for various counties within the USA, called the FIRM (Flood Insurance Rate Maps). These paper maps had to be digitized for the flood zones and given the relevant attributes towards the type of zone, the flood elevation, etc. The completely digitized Flood Maps were to be used for Automated Flood Determination.



Methodology & Technology

These paper maps handed over to Variac Systems, have been digitized for each county's flood zones and then merged into a single digital flood map, while demarcating various features like - type of zone, flood elevation, etc. Over a period of 12 months, flood maps for more than 1000 counties all over the USA were completed.

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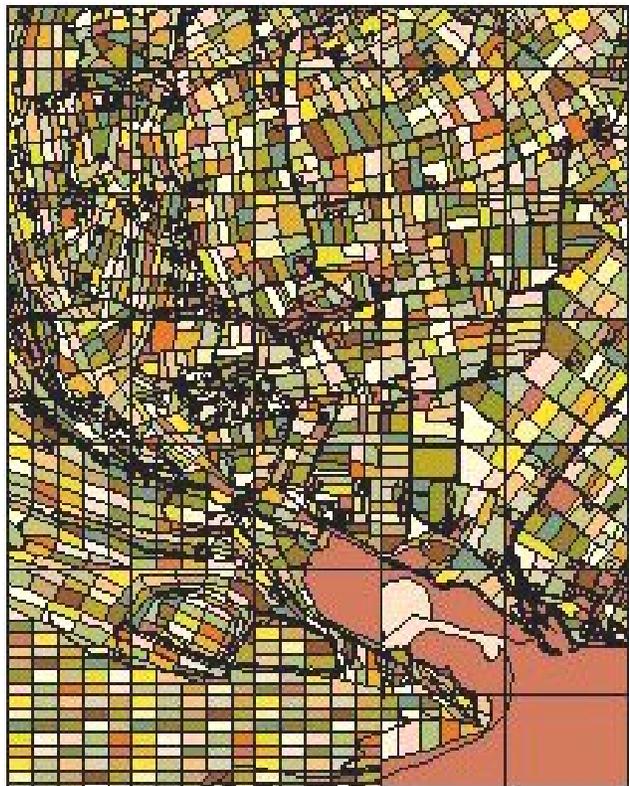
Email: variac@vsnl.com Web: www.variacsystems.com

Geospatial

2.Flora & Fauna Mapping

Project

The client is a Netherlands based GIS consulting company specializing in software development for GIS applications. The client had procured an order from the local provincial Government. They were given maps that contained information on the flora and fauna of a province in the Netherlands. The job was to create / update and code several hundred parcel paper maps into an existing geographical data set. The process included detailed specification and stringent conditions for coding the information marked on the paper maps.



Technology & Methodology

The project that took 7-8 months, was divided into 4 phases for execution. A special team was set up for this project. It comprised 25 CAD operators and 3 Quality Control Operators. This team was trained on the details of the coding and was thus well prepared to take on the task set upon them. The Quality Control Operators ensured less than 1% error on the maps.

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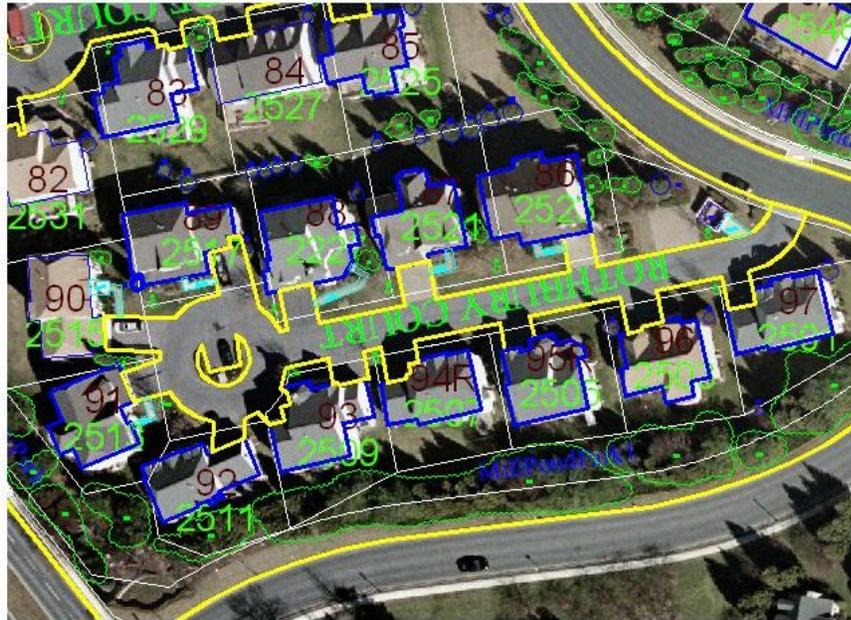
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Geospatial

3.Land Use Mapping



Project

The client was Community Conservancy Company based in the state of Maryland, USA. The customer needed to have the entire area of particular community (Worman's Mill Community) mapped for land usage. The objective was to finally determine the square feet area covered by lawn cultivation in the community. The map details were to be used for their conservancy operations.

Methodology & Technology

The customer provided around 100 aerial images covering the entire community area along with a master file (dxf) detailing the road and parcel network of the community. Using the master file provided all the aerial images were geo referenced. As many as ten different layers were captured from the aerial images including building outlines, different types of trees, shrubs, sidewalks, structures, courtyards, etc. The data captured from each of the aerials were mosaiced and a single map for the entire community was generated. From this base map individual maps for each block were created. The project was executed over a period 3 months.

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Geospatial

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