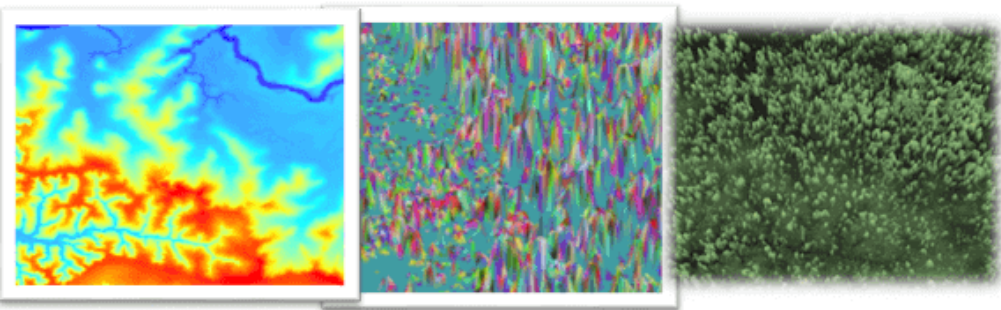


Assessment of Aboveground Carbon (AGC) Stock using Airborne LiDAR and Very High Resolution Satellite Data

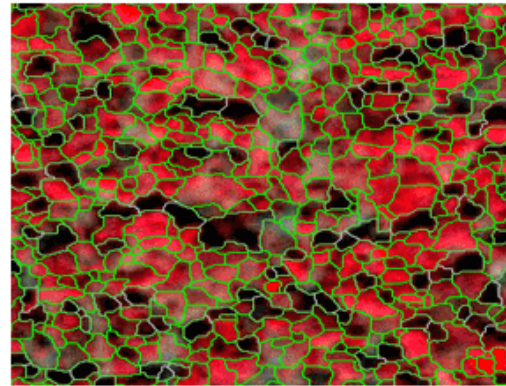
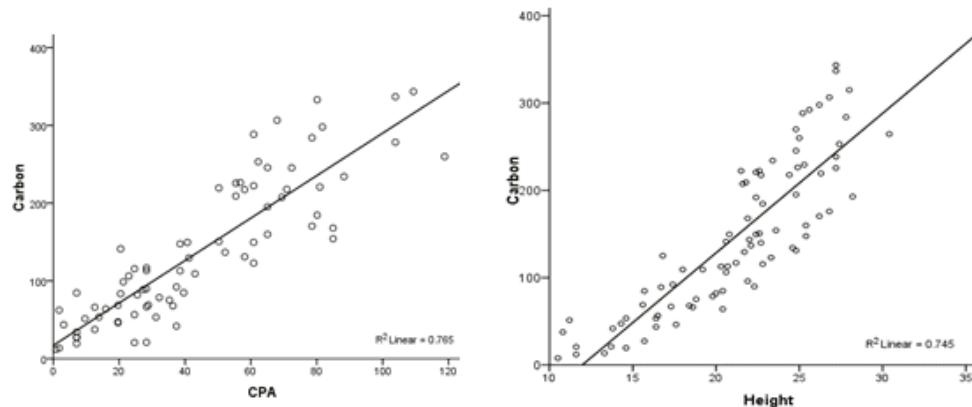
Objective: Integration of airborne LiDAR and Very High resolution data for Above Ground Carbon assessment

Approach:

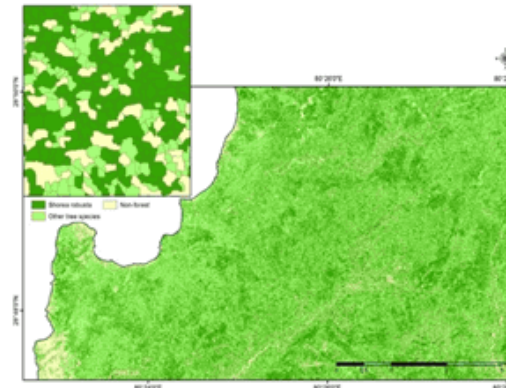
- Estimation of tree height using LiDAR data using DTM and Canopy Height Model
- Correlating tree height and dbh, dbh and crown cover and crown cover vs. above ground biomass
- Carbon Assessment from biomass



Digital Terrain Model Canopy Height Model (CHM) Digital Surface Model (DSM)

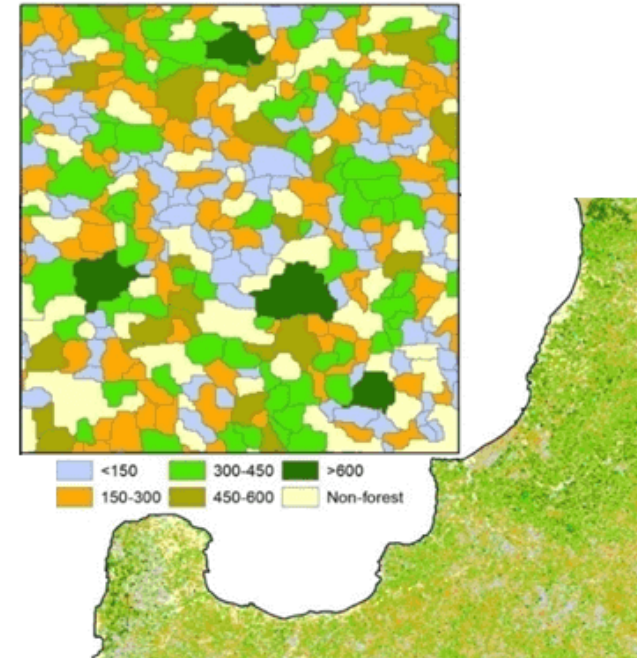


Segmentation



Classification

AGC distribution



Predicted AGC from integration of LiDAR and WorldView-2 data with an accuracy of 71.2%.