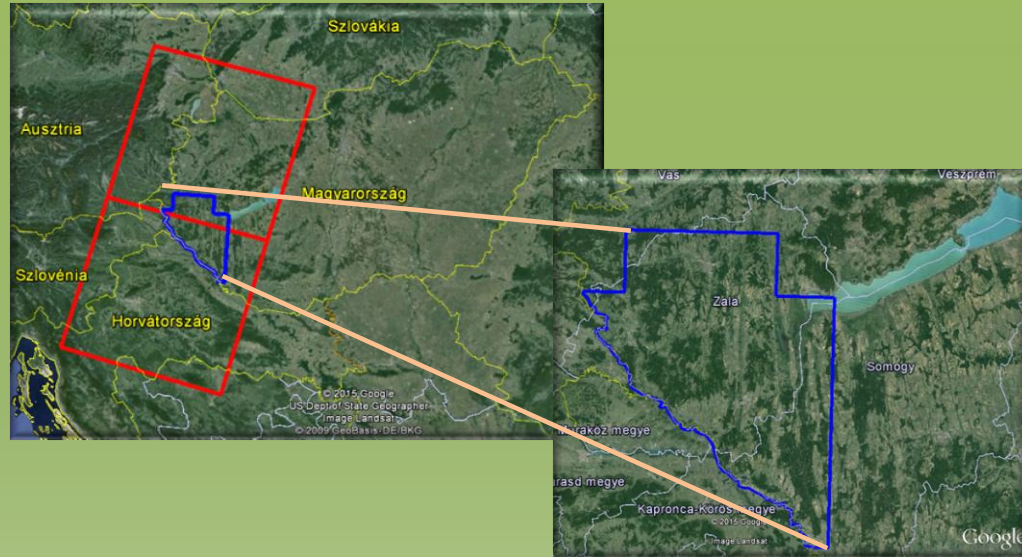


Forest monitoring in South West Hungary based on Landsat time-series



Ivan Barton

ivan.barton@student.nyme.hu

University of West Hungary, Faculty of Forestry,
Institute of Geomatics, Forest Opening-up and Water Management,
Department of Surveying and Remote Sensing



Forest monitoring in South West Hungary based on Landsat time-series

Main purpose:

Detect disturbances in forest compartment level

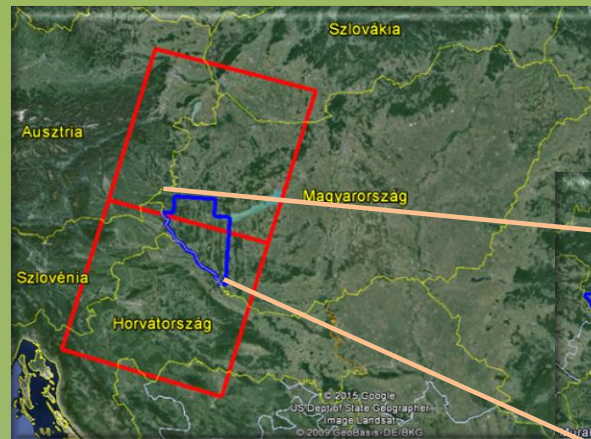
Natural

Artificial

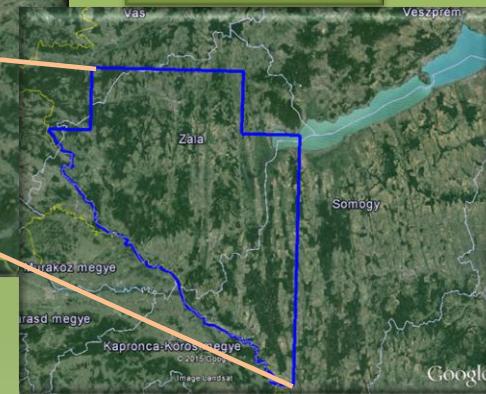
Beech Mass Mortality

Bark Beetle Attack

Forest harvest



Study area



Forest monitoring in South West Hungary based on Landsat time-series

Materials:

Imagery

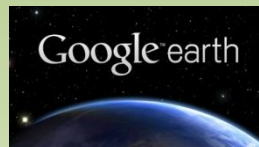
Landsat

Validation data

Field observation of defoliation

National Forest Database

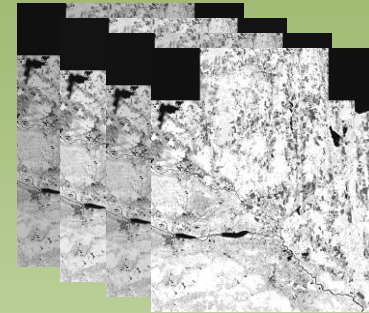
Google Earth archive



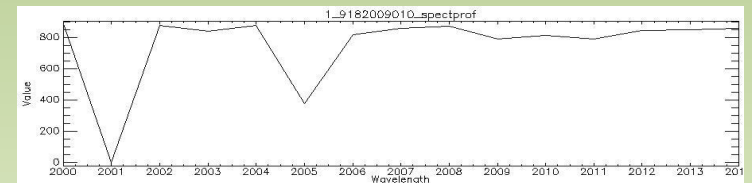
Methods:

Pixel based change detection

LandtrendR



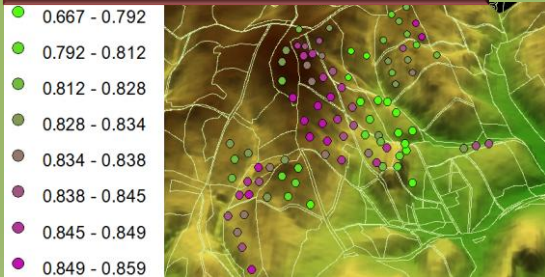
NDVI trajectory



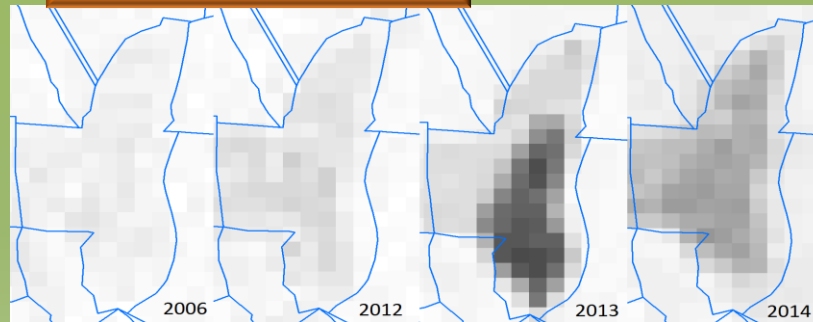
Forest monitoring in South West Hungary based on Landsat time-series

Results:

Beech Mass Mortality



Bark Beetle Attack



Forest harvest

