

LANDCOVER ANALYSIS USING GOOGLE EARTH

EXAMPLE :

PINE FOREST \pm 80 ha

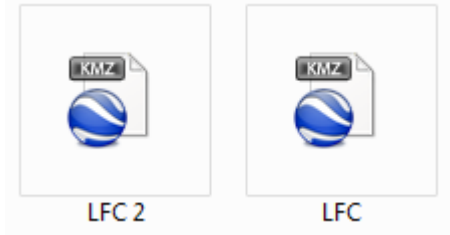
GOOGLE EARTH'S MAIN WINDOW



<http://www.google.com/earth/index.html>

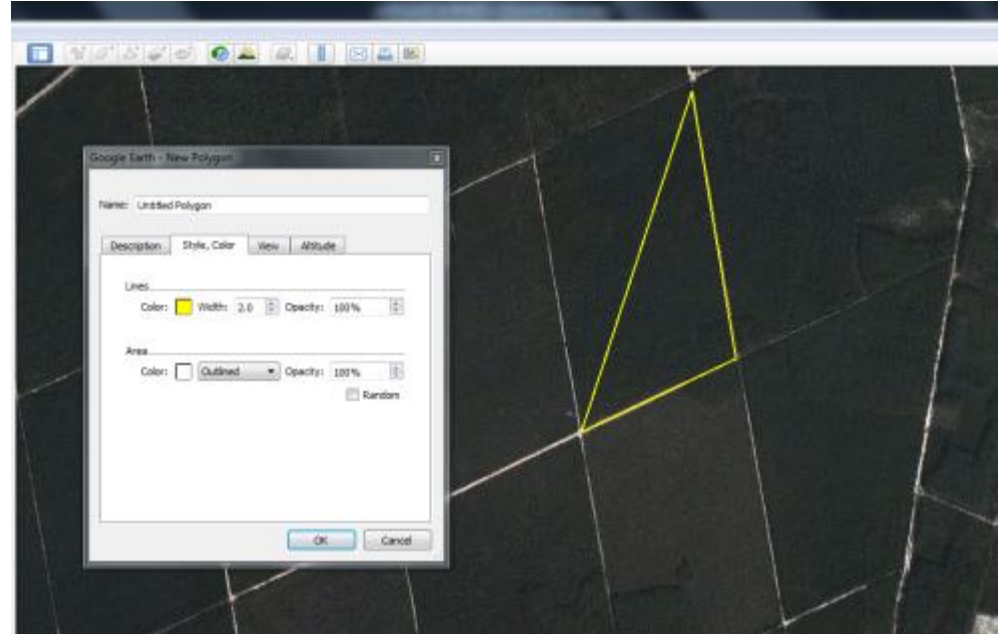
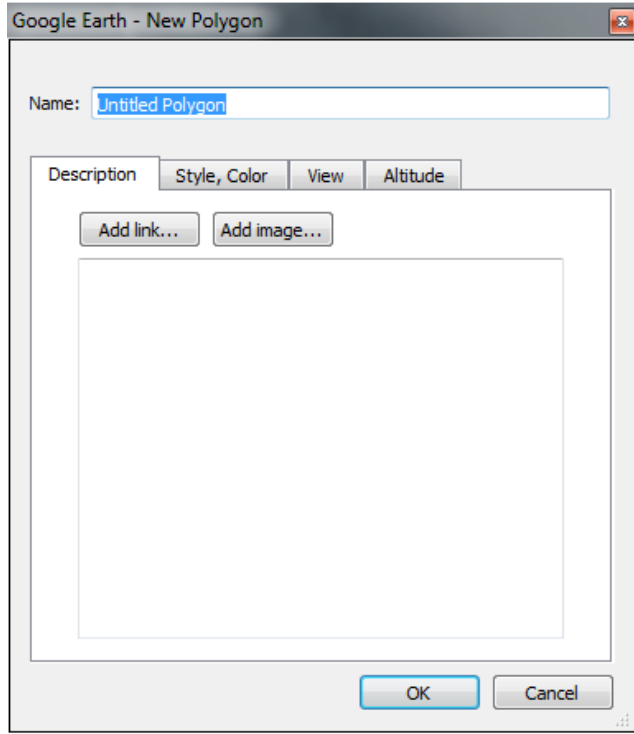
FORMAT DATA

- Google Earth : using extensions “.kml” or “.kmz”
 - Example : forest_zone.kml

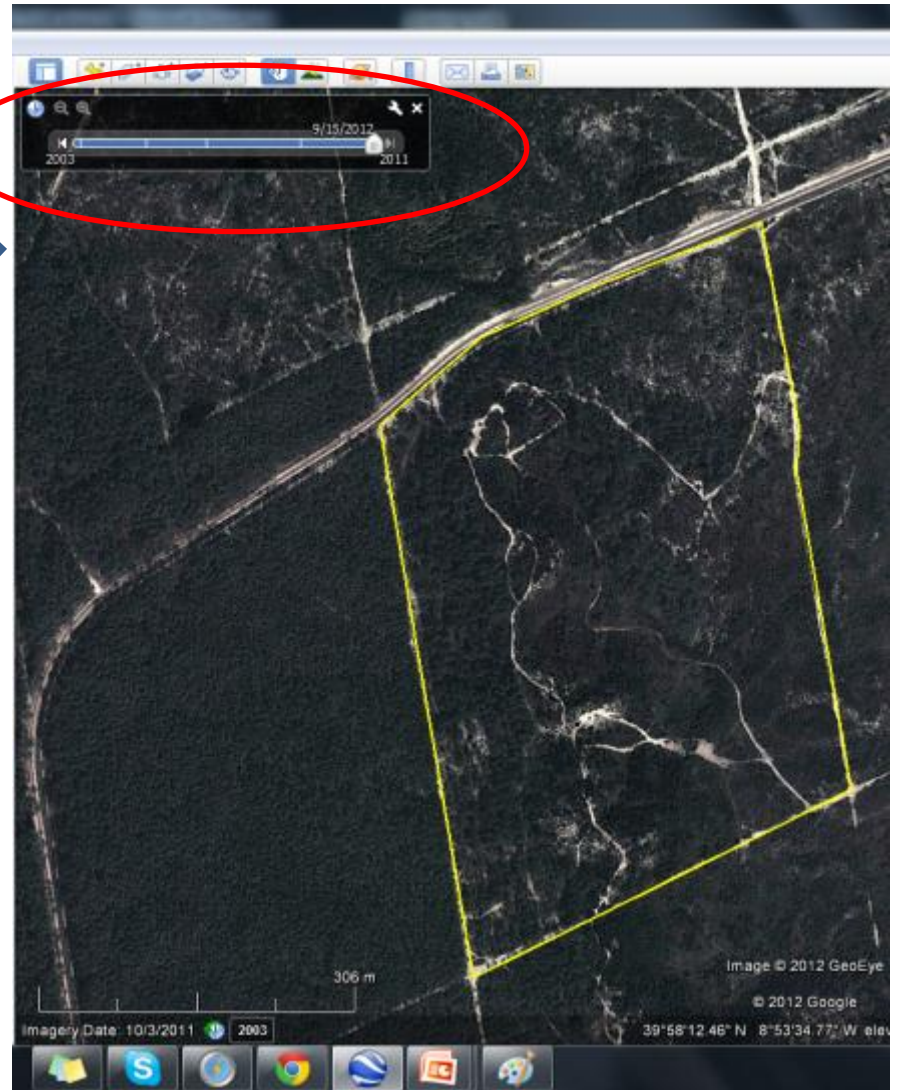


- GIS in general : using extensions: ". Shp", ". Shx", ". Dbf" and several other extensions to the common first name
 - Example : forest_zone :
 - Forest_zone.shp
 - Forest_zone.shx
 - Forest_zone.dbf

CREATE NEW POLYGON



HISTORICAL IMAGINERY

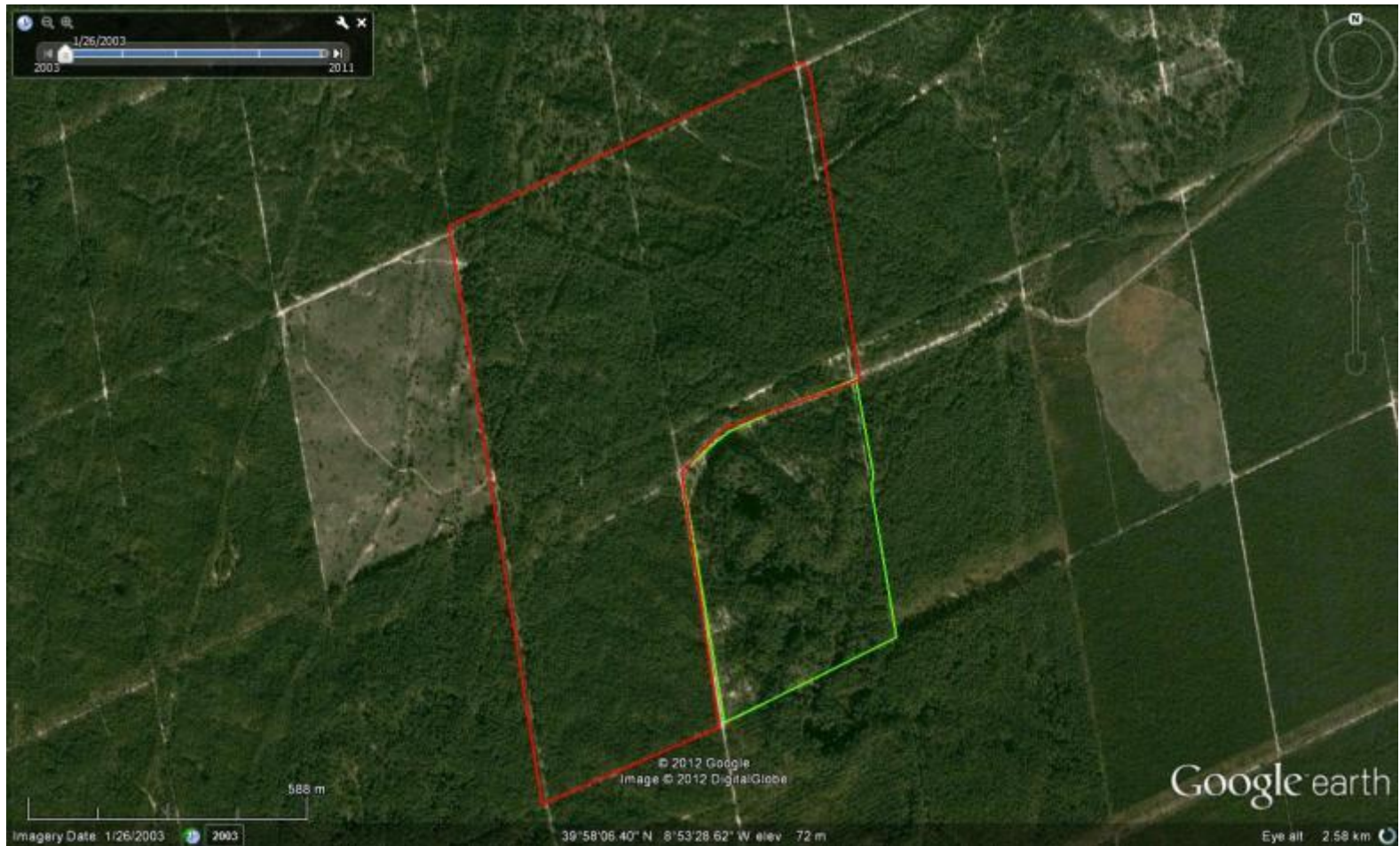


ANALYZE SATELITE IMAGE

- **RESEARCH QUESTION : DID THE LFC CUT THE TREES/TIMBER OUTSIDE ALLOWED AREA?**
- **TOOLS**
 - LFC MAP
 - FOREST ZONE
 - SATELITE IMAGE (i.e. GOOGLE EARTH)
- **PROCEDURES**
 - GET DATA OF LFC MAP AND FOREST ZONE FROM AUDITEE
 - MAKE SURE THE FORMAT DATA IS RELEVAN WITH THE SOFTWARE (i.e. GOOGLE EARTH WILL NEED DATA WITH “.kml” or “.kmz” FORMAT)
 - OPEN DATA ON GOOGLE EARTH
 - OPEN HISTORICAL IMAGINERY AND DRAG THE ARROW TO AVAILABLE IMAGE
 - ANALYZE IS THERE ANY DEFORESTATION OUTSIDE LFC AND MAKE SURE WHEN WAS IT HAPPEN
 - GROUND CHECKING AND CONFIRM TO AUDITEE

CASE STUDY

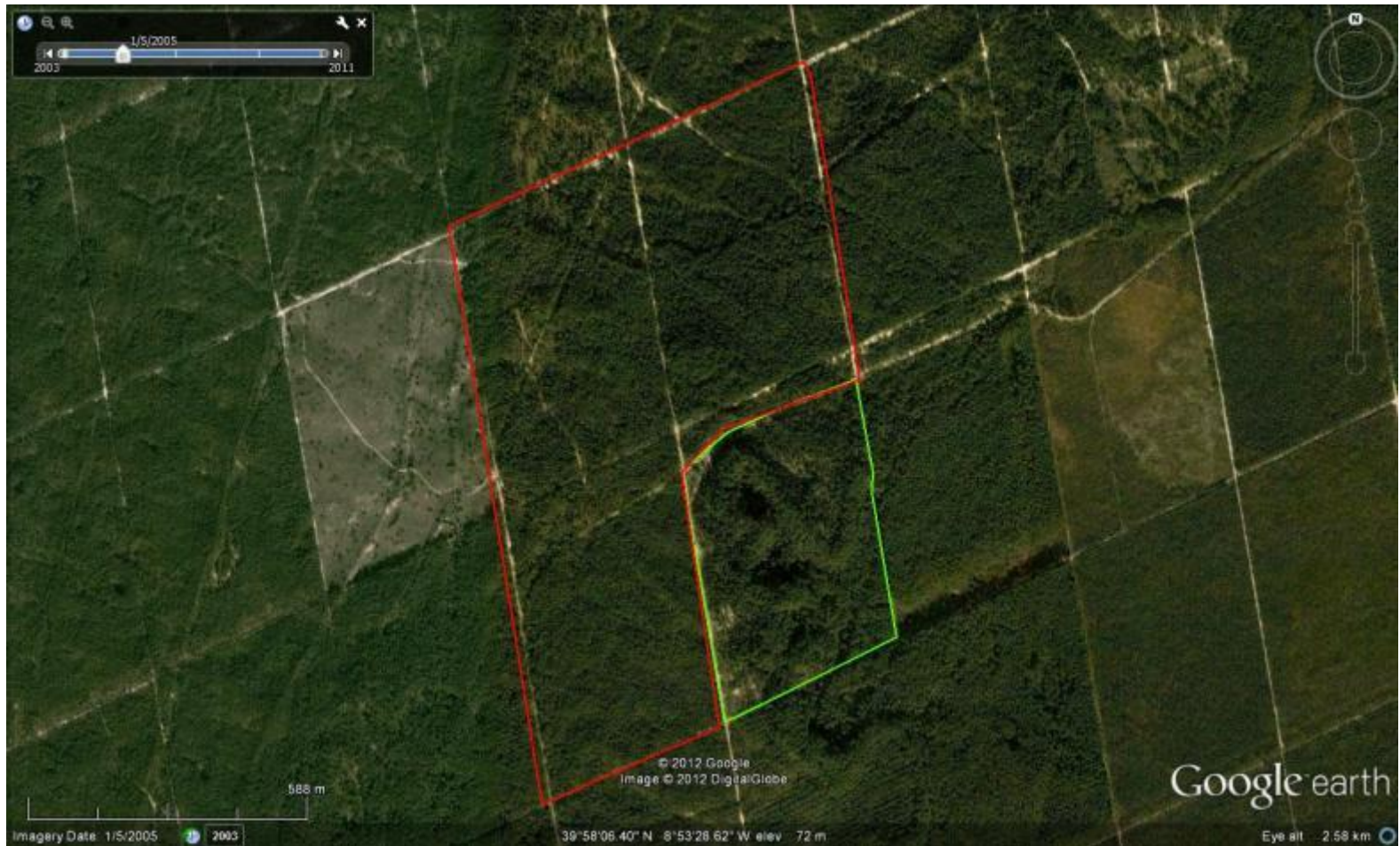
2003



LFC AREA

PROTECTED FOREST

2005



LFC AREA

PROTECTED FOREST

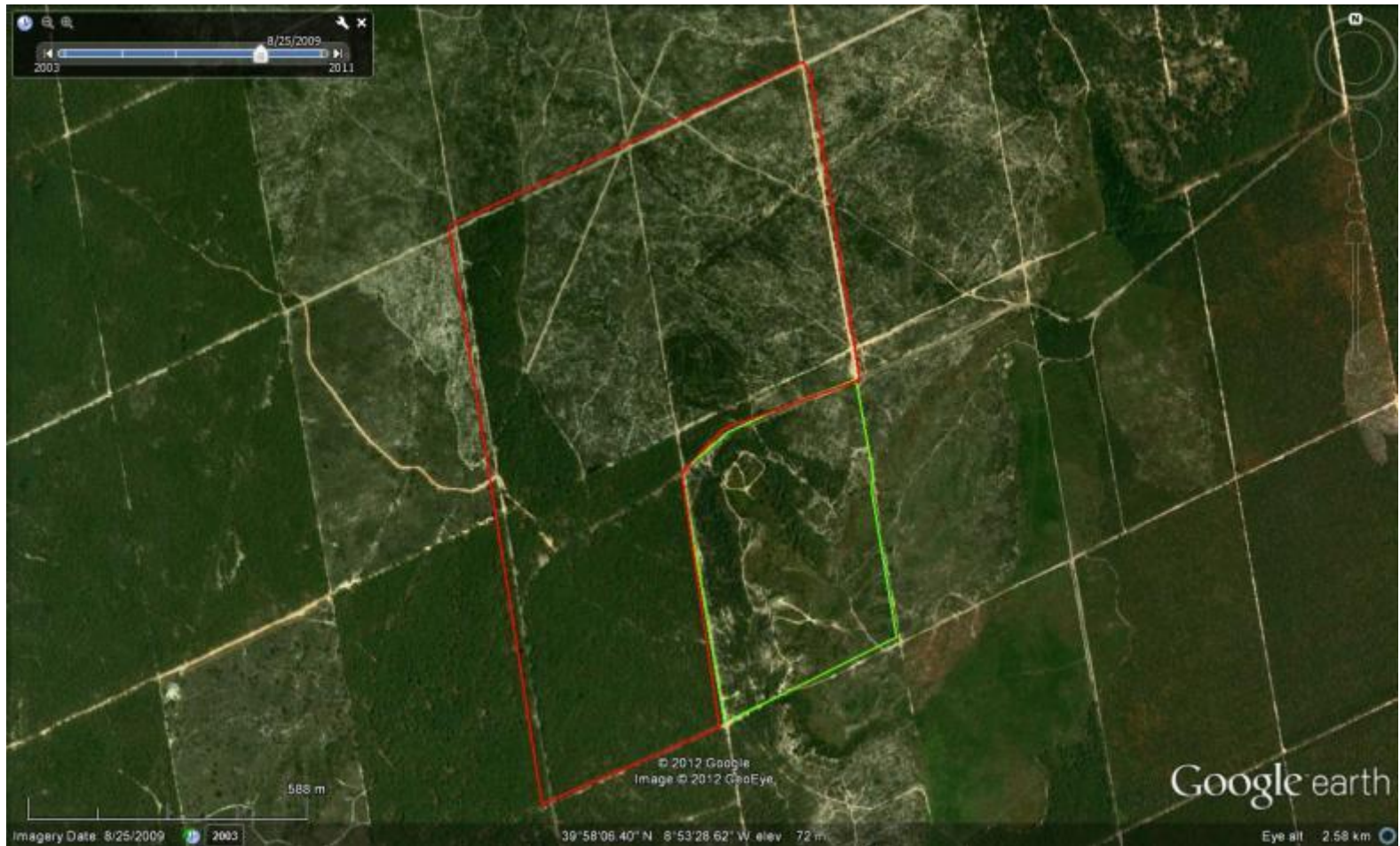
2006



LFC AREA

PROTECTED FOREST

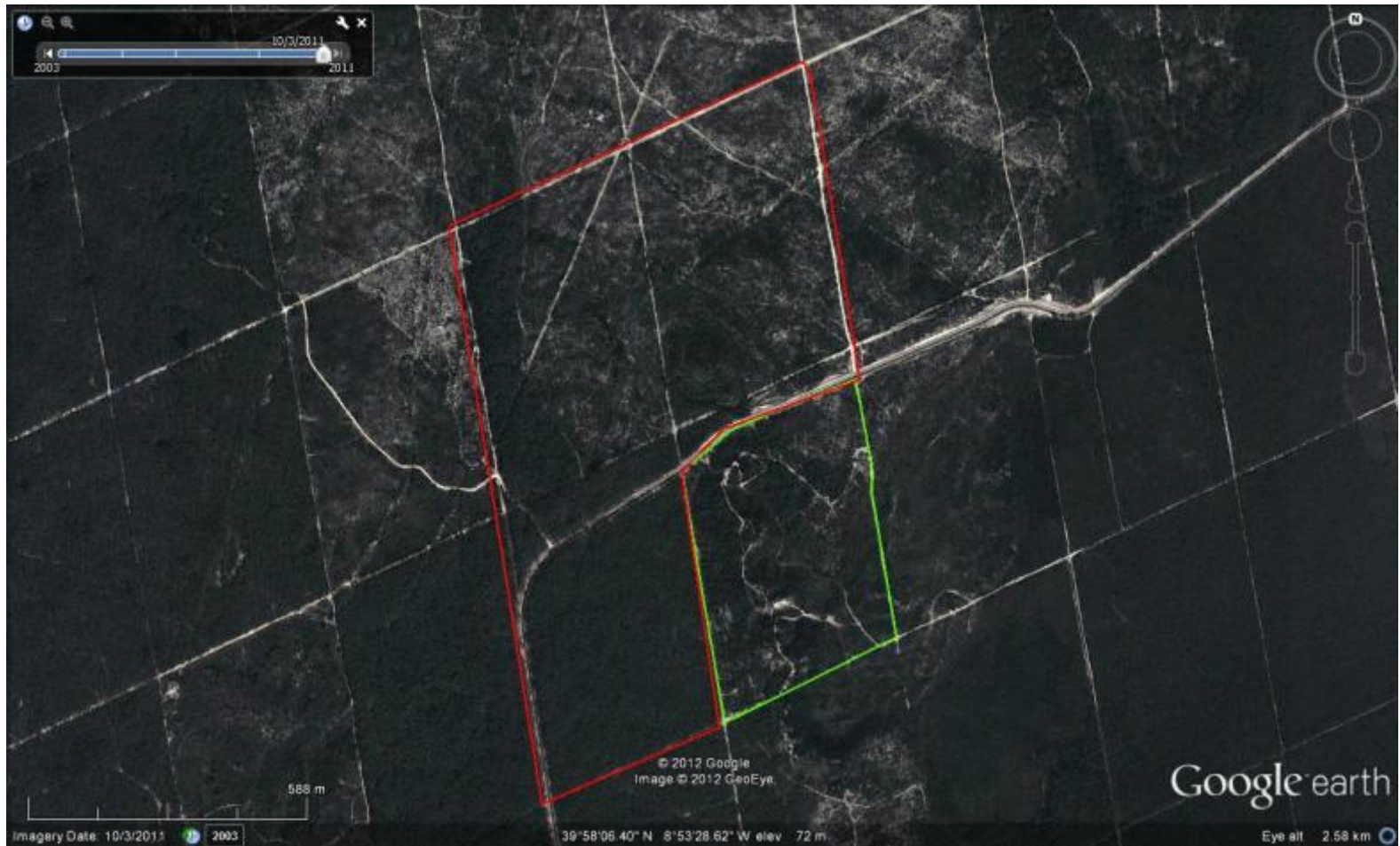
2009



LFC AREA

PROTECTED FOREST

2011



LFC AREA

PROTECTED FOREST

CONCLUSION

- DEFORESTATION IN PROTECTED FOREST OCCURED SINCE 2009
- TO MAKE SURE WHO CUT THE TREES INSIDE PROTECTED FOREST, WE NEED TO CONDUCT ALTERNATIVE PROCEDURES, e.g : GROUND CHECKING, CONFIRMATION, INVESTIGATION