

Forest Information system for Europe

Displaying forest information

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Quantifying forest

First of all, how do we measure the European forest area in an even way?

Key facts about forest quantification:

- Forest concept
- Forest area estimation method

Quantifying forest


Forest concept

- **Many definitions.** The fact that "forest" has been defined in many ways is a reflection of the diversity of forests and forest ecosystems in the world and of the diversity of human approaches to forests (Convention on biological diversity)
- Each state has its own definition
- **FAO definition:** forest is land with tree crown cover (or equivalent stocking level) of more than 10% and an area of more than 0.5 hectares.

Quantifying forest

Forest area estimation

- **NFI.** Different methods and concepts among countries. Not normalized in format and recurrence
- **Statistic data from global assessments:**
 - Forest Resources Assessment (FAO) , Joint Forest Sector Questionnaire (UNECE), European Forest Accounts (EUSTAT)
 - Data derived usually from NFIs. Not homogeneous
 - e.g. Germany: Last inventory 2012 + interpolation
 - France; Annual systematic inventory since 2005 + remote sensing

- Copernicus 
 - HRL
 - CLC

Quantifying forest

Forest area estimation

- **Copernicus Forest HRL** Original resolution 20 m and generalization, 100 m

Topic	Description	Years
Density	0 to 100 %	2012, 2015
Dominant leaf type	Broadleaf / Conifer. (Mixed in the 100m)	
Forest type	20 m: Broadleaf/ conifer 100 m: Broadleaf, conifer and mixed FAO definition	

- **Corine Land Cover**

CLC,	Resolution	Years
44 land Use	25 ha / 100m mmu	1990, 2000, 2006, 2012, 2018

Forest classes: Broadleaved forest, Coniferous forest, Mixed forest, Transitional Woodland-shrub and Sparsely vegetated areas.

HRL forest products vs CLC

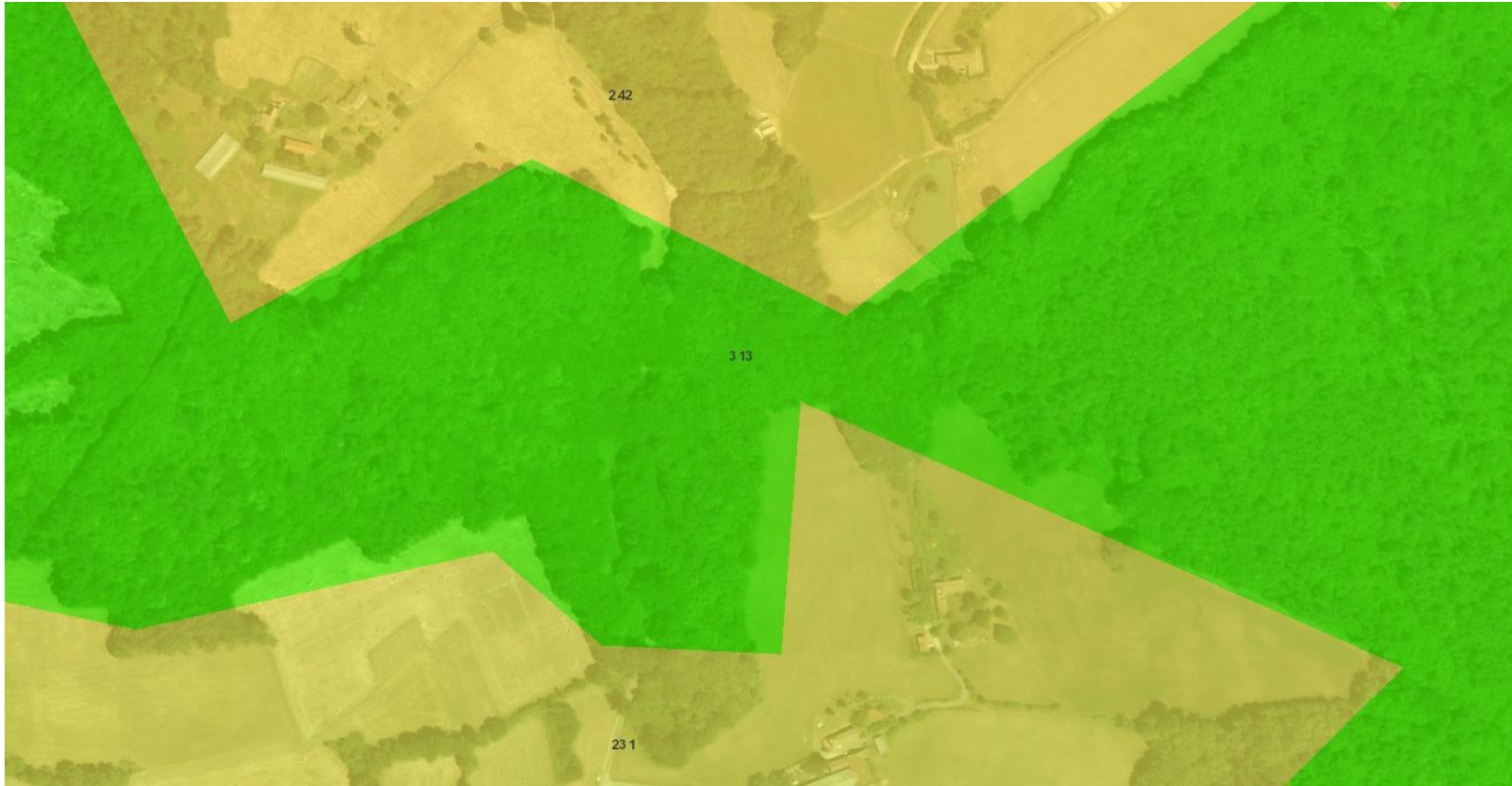


Tree cover density and type 20m masked by forest type 100m



Original Tree cover density 20m (not FAO)

HRL forest products vs CLC



Corine Land Cover 2018 Vector:
mixed forest (313), complex cultivation patterns (242) and pastures (231)

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Thank you!