Combining Earth Observation Data and Forest Statistics

European Forest Institute
Research Report 14

Risto Päivinen, Mikko Lehikoinen, Andreas Schuck, Tuomas Häme, Seppo Vääätäinen, Pamela Kennedy and Sten Folving

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RESEARCH REPORT

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NO. 14
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The objective of the project was to combine information from both remote sensing and forest inventory statistics, and produce a NOAA-AVHRR-based forest map that corresponds to the official statistics reported at the regional or province level for the 15 EU countries. The statistical data were based on the European forest statistics compiled by the Statistical Office of the European Communities, EUROSTAT. A reflectance image mosaic of 49 NOAA-AVHRR images was used as the satellite data. The CORINE Land Cover database represented ground data. A method ‘pixel-by-pixel ratio scaling’ was developed to carry out the calibration. The applicability and limitations of the methods are discussed. A follow-up project is underway to complete the forest map of Europe at the regional/province level using the methodology described in this report.

The authors would like to express their gratitude to the following people for their help in preparing the map and the report: Fernando Sedano, Laura Sirro and Janne Sarkeala of Stora Enso Forest Consulting Ltd.; Saija Miina and Tim Green of EFI; and Saku Ruusila and Jouni Halonen of PihkaPojat.

Joensuu, Espoo and Ispra
July 2001
The authors
Executive Summary

Earth Observation data are regarded as a cost-efficient means for locating different types of vegetation cover at the ground level. Initiatives for mapping forests are implemented at different levels of detail, scale, using different sources of information and addressing a variety of target groups. Statistical data on forest area and its distribution for different forest classes are traditionally available through the national forest inventory statistics and other national and international forest statistical sources. When comparing satellite-derived data for forest area and inventory statistics, discrepancies are in the order of tens of percent at the country level. Often the accuracy of satellite-based maps varies considerably and in many cases, is not even assessed by the map providers.

This study aimed at combining information from both remote sensing and forest inventory statistics in order to improve the knowledge on the distribution of forests in Europe. For each of the EU-15 countries the target was to produce a NOAA-AVHRR-based forest map which corresponds to the official statistics reported for the regional or province level.

The input data

The statistical data were based on the European forest statistics compiled by the Statistical Office of the European Communities, EUROSTAT. The target variables were forest, other wooded land and other land. For three selected sample countries of the EU (Finland, France and Italy), a more detailed approach was tested using national forest statistics. For these countries the forest area was further divided into three sub-categories: coniferous, broadleaf and mixed forest. A reflectance image mosaic of 49 images acquired from the AVHRR instrument of NOAA 14 satellite was used as the reference satellite data. The CORINE Land Cover database was selected as the most appropriate database for representing ground data.

The calibration method (pixel-by-pixel ratio scaling)

In a first phase, the percentage of the forest probability was estimated for each AVHRR pixel, using CORINE land use classification as training data to establish the link between the five classes (forest, other wooded land, and within the forest class, coniferous, broadleaf and mixed forest) and the AVHRR spectral response. In a second phase, the area of classes was calibrated based on the concept of a confusion matrix to correspond to the area of forest land within the NUTS (Nomenclature of Territorial Units for Statistics) areas.
The calibration process was repeated twice and no threshold value for differences was set. This approach meant that the threshold after two rounds represented the actual threshold resulting from the applied calibration process. The threshold values therefore varied between the individual polygons.

Limitations of the calibration

Some difficulties were encountered during the implementation of the calibration procedure with effect on the outcome. They refer mainly to technical problems related to the data. Errors in regard to the AVHRR image-derived estimates can arise from the mosaicking procedure, seasonal effects in the imagery, atmospheric correction and mis-registration of the mosaic.

- The boundaries of NUTS and the AVHRR image coastline, did not always coincide completely. This may then lead to mis-registration errors.
- Borderline-pixels between individual polygons were found to belong to one, or both of the neighbouring polygons (overlapping pixels), or to neither of the polygons (missing pixels). The overlapping pixels were assigned to only one polygon when merging the grids. Missing pixels were replaced from the original proportion images or were interpolated from neighbouring pixels.
- The presence of cloud covered areas within the 49 AVHRR images reduced the accuracy of the estimated forest proportions. That effect was most obvious for Austria, Germany and the Alpine and Pyrenean mountain ranges. These ‘no data’ (clouds, snow) pixels were assigned with a label ‘no data’ thus eliminating them from further processing.
- The CORINE Land Cover database was used to assign a forest proportion (or other land cover proportion) to the AVHRR pixel clusters. It should be kept in mind that the CORINE database does not cover the entire pan-European area, and in fact, is also rather limited in terms of its coverage in the boreal zone.
- Satellite data can obviously not distinguish between all different land use types. As for example, ground inventories regard ‘temporarily unstocked areas’ as forest. Classification procedures applied to satellite data, however, may assign hay fields, pasture lands and clear cut areas to the same output class.
- EUROSTAT statistics of 1992–1996 use the definitions for forest and other wooded classes based on used in the UN-ECE/FAO-1990 Temperate and Boreal Forest Resources Assessment. Individual countries collect their inventory data according to their own developed procedures and definitions. They may vary considerably to those of international reporting bodies. Furthermore, the rather vague definitions of forest in the CORINE nomenclature, together with the fact that the database has been generalised, and not validated, render the CORINE less than ideal as the reference database.
Applicability of the calibration method

Most of the reservations described above may be overcome if more harmonised nomenclature, better ground data, and more cloud-free satellite data would be available. That would positively influence the accuracy of the calibration results. In summary, however, the methodology of calibration itself proved to be well suited to the problem of combining two independent data sources to one value-added product.
List of Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVHRR</td>
<td>Advanced Very High Resolution Radiometer</td>
</tr>
<tr>
<td>CEC</td>
<td>Commission of the European Communities</td>
</tr>
<tr>
<td>CORINE</td>
<td>Coordination of Information on the Environment</td>
</tr>
<tr>
<td>EC</td>
<td>European Commission</td>
</tr>
<tr>
<td>EEA</td>
<td>European Environmental Agency</td>
</tr>
<tr>
<td>EFICS</td>
<td>European Forestry Information and Communication System</td>
</tr>
<tr>
<td>EO</td>
<td>Earth Observation</td>
</tr>
<tr>
<td>ESA</td>
<td>European Space Agency</td>
</tr>
<tr>
<td>EUROSTAT</td>
<td>The Statistical Office of the European Communities</td>
</tr>
<tr>
<td>EU</td>
<td>European Union</td>
</tr>
<tr>
<td>JRC/SAI</td>
<td>Joint Research Centre/Space Applications Institute</td>
</tr>
<tr>
<td>NOAA</td>
<td>National Oceanic and Atmospheric Administration</td>
</tr>
<tr>
<td>NUTS</td>
<td>Nomenclature of territorial unit for statistics</td>
</tr>
<tr>
<td>OWL</td>
<td>Other wooded land</td>
</tr>
<tr>
<td>UN</td>
<td>United Nations</td>
</tr>
<tr>
<td>UN-ECE/FAO</td>
<td>United Nations Economic Commission for Europe/Food and Agricultural Organization</td>
</tr>
</tbody>
</table>
1 Introduction

1.1 Background

1.1.1 Earth Observation data

Earth Observation (EO) data are regarded as a cost-efficient means for locating different types of vegetation cover at the ground level. There are numerous initiatives for mapping forests worldwide and for Europe. They vary in their level of detail, scale, sources of information and target groups. A few examples are listed below:

- The remote sensing forest map was prepared for the European Space Agency (ESA) in 1992 as a contribution to the World Forest Watch project of the International Space Year (ESA, 1992, 1993). The derived forest/non-forest map at a scale of 1:6 million was based on the classification of multi-spectral National Oceanic and Atmospheric Administration (NOAA) Advanced Very High Resolution Radiometer (AVHRR) satellite data. The main objective was to provide up-to-date information and a reliable reference database for monitoring forest using a standard approach and a single homogeneous set of image data.

- The approach of the Co-ordination of Information on the Environment (CORINE) Land Cover map of the Commission of the European Communities (CEC), is based on computer-assisted photo-interpretation of EO satellite images, with the simultaneous consultation of ancillary data, into the pre-defined categories of the CORINE Land Cover nomenclature. Out of 44 classes, three describe forest (i.e. coniferous, broadleaved, mixed) and one describes agroforestry (EEA Task Force, 1992). Forest areas smaller than 25 ha are not included as they fall below the threshold of the reference unit size.

- The International Geosphere-Biosphere Programme has compiled a global data set of land cover, and its characteristics at a spatial resolution of 1 km was derived from the AVHRR sensor. North America, South America, Europe and Africa have been completed. The classification system consists of 17 classes, five of which are related to forest land (evergreen coniferous forests, evergreen broadleaved forests, deciduous coniferous forests, deciduous broadleaved forests and mixed forests). Two further classes describe closed and open shrub lands.

- The University of Maryland within the framework of its Tree Cover Project, has produced a number of maps distinguishing the proportion of tree cover, the cover for evergreen and deciduous, and broadleaved and needle-leaved. The work was based on AVHRR satellite data at a global to regional scale. The project also covers the entire European continent (DeFries et al., 1998; DeFries et al., in press; Hansen et al., in press).

Mapping forests at the national level is a common practice in European countries. The level of detail, scale and approaches (aerial photographs, satellite imagery) are manifold.
In France, the Inventaire Forestier National, for example, produces 1/25000 forest maps. In Finland, satellite-based forest maps of various scales are available.

1.1.2 Forest statistics for Europe

Statistical data on forest area and its distribution for different forest classes are traditionally available through the national forest inventory statistics and other national and international forest statistical sources. The publication of the European Commission under the European Forest Information and Communication System (EFICS) on forest inventory and survey systems (EC, 1997) includes detailed reference lists to completed and ongoing forest inventory activities, and published results of more than 20 European countries. Examples of international organisations collecting forest resources data are the UN-ECE/FAO2 (UN, 2000) and EUROSTAT3, (EUROSTAT, 1998). In both national and international publications most countries provide data on coniferous and broadleaved forest area, also distinguishing in some cases by main tree species and/or tree species groups. The statistics may also yield this type of detailed information at the region/province level. Such data only permit the identification of the total share of a tree species in a particular region or province. Furthermore, the level of detail may vary considerably from one country to another, as may the definitions for tree species/species groups.

For field inventories based on sampling, a measure of reliability can be derived. At the country or province level, the standard errors for forest area estimates vary from less than one to a few percent (EC, 1997). When comparing satellite-derived data for forest area and inventory statistics, discrepancies are in the order of tens of percent at the country level (Kuusela and Päivinen, 1994). Often the accuracy of satellite-based maps varies considerably, and in most cases, is not even assessed by the map providers.

1.2 Objectives

This study aims at combining information from both remote sensing and forest inventory statistics in order to improve our knowledge on the distribution of forests in Europe. For each of the EU-15 countries the target was to produce a NOAA-AVHRR-based forest map which corresponds to the official statistics reported for the regional or province level. The statistical data were based on the European forest statistics compiled by the Statistical Office of the European Communities, EUROSTAT. The target variables were: forest; other wooded land (OWL); and other land.

For three selected sample countries of the EU (Finland, France and Italy), a more detailed approach was tested using national forest statistics. Forest area was further divided into three sub-categories: coniferous; broadleaved; and mixed forest.

---

2 UN-ECE/FAO United Nations Economic Commission for Europe/Food and Agricultural Organization
3 The European Statistical Office of the European Commission
2 The Data

2.1 Earth Observation data (NOAA-AVHRR images and CORINE data)

A reflectance image mosaic of 49 images acquired from the AVHRR instrument of NOAA 14 satellite was used as the reference satellite data. Forty-eight images were from the summer 1996 and one image from 1997. Only red and near-infrared channel data were used. The mosaic was converted to the CORINE version of the Lambert azimuthal equal area projection with a 1000 × 1000 m pixel size. The CORINE Land Cover database was selected as the most appropriate database for representing ground data (EEA, 1994).

2.2 European and national statistics

2.2.1 The EUROSTAT statistics

The forest statistics compiled by EUROSTAT for the period 1992–1996 (EUROSTAT, 1998) are based on national forest inventories and land use surveys, the national data being adjusted case by case to match with internationally agreed definitions. Within the EUROSTAT statistics only the terms ‘forest land’, ‘other wooded land’ and ‘wooded area’ (forest plus other wooded land) are distinguished. The definitions used in EUROSTAT are based on those of the UN-ECE/FAO Forest Resources Assessment of the Temperate Zone, 1990 (UN, 1992) and its update of 1995. The definitions are as follows:

- **Forest land** is defined as land with tree crown cover (stand density) of more than about 20% of the area. Continuous forest with trees usually growing to more than about 7 m height and able to produce wood. This includes both closed forest formations where trees of various storeys and undergrowth cover a high proportion of the ground, and open forest formations with a continuous grass layer in which tree synusia cover at least 10% of the ground.
- **Other wooded land** (OWL) is land, which has some forestry characteristics, but is not forest as defined above. It includes open brushland and scrub, shrub and brushland, whether or not used for pasture or range. It excludes land occupied by ‘trees outside the forest’.
- **Wooded area** consists of forest land and OWL.

The data for wooded area are based on the EUROSTAT Forestry Questionnaire of 1997 in which the figures are reported for levels 1, 2 and 3 of the NUTS (Nomenclature of Territorial Units for Statistics) system of nomenclature (EUROSTAT, 1995). Table 1 gives an overview of the data from EUROSTAT at the NUTS level-0 (i.e. country level) and illustrates the availability of statistics at NUTS level-1 and level-2 (Figure 1). The degree of completeness varies considerably between the EU-15 countries.

<table>
<thead>
<tr>
<th></th>
<th>NUTS 0</th>
<th>NUTS 1</th>
<th>NUTS 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Forest</td>
<td>OWL</td>
<td>TOTAL</td>
</tr>
<tr>
<td>Austria</td>
<td>3877</td>
<td>–</td>
<td>3877</td>
</tr>
<tr>
<td>Belgium</td>
<td>667</td>
<td>9</td>
<td>676</td>
</tr>
<tr>
<td>Denmark</td>
<td>417</td>
<td>–</td>
<td>417</td>
</tr>
<tr>
<td>France</td>
<td>15034</td>
<td>1840</td>
<td>16874</td>
</tr>
<tr>
<td>Finland</td>
<td>20032</td>
<td>2971</td>
<td>23003</td>
</tr>
<tr>
<td>Germany</td>
<td>10741</td>
<td>–</td>
<td>10741</td>
</tr>
<tr>
<td>Greece</td>
<td>3359</td>
<td>3154</td>
<td>6513</td>
</tr>
<tr>
<td>Ireland</td>
<td>570</td>
<td>36</td>
<td>606</td>
</tr>
<tr>
<td>Italy</td>
<td>6821</td>
<td>3036</td>
<td>9857</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>89</td>
<td>–</td>
<td>89</td>
</tr>
<tr>
<td>Netherlands</td>
<td>334</td>
<td>50</td>
<td>384</td>
</tr>
<tr>
<td>Portugal</td>
<td>2</td>
<td>347</td>
<td>31</td>
</tr>
<tr>
<td>Spain</td>
<td>10662</td>
<td>15332</td>
<td>25984</td>
</tr>
<tr>
<td>Sweden</td>
<td>24425</td>
<td>3582</td>
<td>28007</td>
</tr>
<tr>
<td>UK</td>
<td>2469</td>
<td>–</td>
<td>2469</td>
</tr>
</tbody>
</table>

– = Nil (zero); yes = data available; no = data not available.

Figure 1. NUTS polygons representing the geographical units where EUROSTAT forest area statistics for EU-15 countries are available. The level of detail varies from NUTS level-0 in Sweden, Ireland, Portugal Greece, the Netherlands, Belgium, Luxembourg, to NUTS level-1 in Germany and the UK, and to NUTS level-2 in Denmark, Spain, France, Italy and Finland. For Austria, only NUTS level-0 data was available from the EUROSTAT statistics. More detailed national statistics were used in this case.
Figure 2. Polygons representing geographical division used in the national forest statistics in Italy, Finland and France.
In the case of Austria, only information from the NUTS level-0 was available from EUROSTAT. Since the provinces matched exactly with the NUTS level-2 polygons, data from the national statistics were used to represent NUTS level-2 forest data (Forstliche Bundesversuchsanstalt-Waldforschungszentrum, 1995). The precise data utilised in this study are listed in Appendix 1.

2.2.2 National forest inventory data

National statistics for most countries are published for geographical units that in most cases match with the NUTS level boundaries. Three case studies are presented in detail in this report: for Finland re-digitising of the NUTS level-3 was required in order to match the boundaries with the national forest districts; for France NUTS level-2 and also NUTS level-3 data (Departèments) were available; and for Italy, NUTS level-2 data were available (Figure 2).

European countries have their own set of terms and definitions for the categories of forest, OWL, etc. (EC, 1997). The concept of ‘forest’ is comparable at certain levels, but the definition of OWL varies considerably for the different countries, and in part the descriptions of this class are rather vague. In France, for example, OWL is not assessed in the field and estimates are derived from ocular interpretation of aerial photographs.

For Finland, the definitions of forest and OWL are listed in Table 2. The OWL statistics reported by EUROSTAT exactly matched those for ‘scrub land’ as reported in the Finnish 1995 Statistical Yearbook of Forestry (FFRI, 1995).

The national statistics specify the area by individual tree species. Therefore, *Picea abies*, *Pinus sylvestris* and ‘other conifers’ were combined to form the class of coniferous forest. The same procedure was used for broadleaved forest. Broadleaved forest included *Betula pendula*, *B. pubescens*, *Populus tremula*, *Alnus* spp. and ‘other non-coniferous’ species. The class ‘mixed’ only exists in terms of describing the contribution of the dominant tree species (<75%) to the volume. Two other categories reported are ‘some species mix’ and ‘pure’ stands. The expression ‘mixed’ refers mainly to a mix of spruce and pine with the possible inclusion of a small amount of broadleaved species. Therefore, the class ‘mixed’ can be regarded more as a mixture of different coniferous species, than of coniferous and broadleaved species.

For France, it was rather difficult to distinguish the information for the different classes. The Inventaire Forestier National uses definitions for forest and OWL as presented in Table 3.

The definition of these so-called ‘other wooded lands’ as described in Table 3 was not suitable for deriving statistics on OWL based on the UN-ECE/FAO Forest Resources Assessment of the Temperate Zone, 1990 definitions (UN, 1992). It is a description of protection and unmanaged forests. The two classes ‘forest’ and ‘other wooded lands’ constitute the forest of France. OWL for France is described, for example, in the Temporal and Boreal Forest Resources Assessment 2000 (UN, 2000) as:

*Heathland in the sense of the land use survey and is defined as formations generally of large extent. Grassy vegetation most often accounts to the bulk of plant life, but a minimum of 25% of the ground cover consists of woody or semi-woody plants such as ferns, heather, broom and gorse. Wooded areas represent less than 10% of the total.*
Table 2. National terms and definitions for Finland.

<table>
<thead>
<tr>
<th>Finland</th>
<th>‘Forest’</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In the national statistics this is called ‘Forest land’. Forest land has the potential capacity to produce a mean annual increment of at least 1 m$^3$/ha stem wood, over bark, given an optimum tree species mixture, growing stock volume and prescribed rotations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>‘Other wooded land’</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In the national statistics this is called ‘scrub land’. Scrub land has the potential capacity to produce a mean annual increment of at least 0.1 m$^3$/ha but less than 1.0 m$^3$/ha given an optimum tree species mix. There is also the term ‘waste land’. Waste land: if not naturally treeless, does not have an optimum tree species mix, and it is not able to produce annually more than 0.1 m$^3$/ha. This area had been added to other land.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>‘Coniferous’</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The area of coniferous forest had been derived from the national statistics where they are separated by individual tree species. The individual tree species, namely spruce (Picea abies), pine (Pinus sylvestris) and other conifers, were combined to form the category coniferous forest.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>‘Broadleaved’</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The area of broadleaved forest had been derived from the statistics that were available by individual tree species. The tree species, namely white birch (Betula pendula), downy birch (B. pubescens), aspen (Populus tremula), alder (Alnus spp.) and other non-coniferous species were combined to form the category broadleaved forest.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>‘Mixed’</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The mixed forest category as needed for this project did not exist. The national statistics only define mixed coniferous forest.</td>
</tr>
</tbody>
</table>

Source
Data: (FFRI, 1998).
Terms and definitions: (EC, 1997; FFRI, 1998).

Table 3. Definitions of ‘forest’ and ‘other wooded lands’ as provided by the Inventaire Forestier National (EC, 1997).

‘Forests’
Identified from aerial photos (ocular estimates). Must have following characteristics:
• Either measured trees (diameter >7.5 cm) have a crown cover percentage reaching at least 10% (ground projection of crowns) or
• there are more than 500 stems/ha that are viable trees (able to make a stand):
  • seedlings, plants or shoots, vigorous, well shaped and regularly distributed.
• These characteristics, identified by photo-interpretation, are then checked up on the fields.
• Cover at least 5 acres, the average width of canopy being at least 15 m.

‘Other wooded lands’
Defined by the same criteria as production forest, the only difference being that their main function is not production. They are not sampled in the forest. They mainly consist of unmanaged forest, protective forest, non-admittance areas.
It was not possible to derive the classes ‘mixed’ forest from the officially available statistics of the Inventaire Forestier National. Data supplied within the land use survey ‘Utilisation du Territoire – TERUTI, 1995’ (in Ministère de l’Agriculture, de la Pêche et de l’Alimentation, 1997) allowed a general, but more suitable division of the statistics following the classes used in this project.

Table 4. Terms and definitions of forests for France.

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>France</td>
<td>‘Sols à couverture boisée ou sols boisées’ (Areas with wood coverage or wooded areas)</td>
</tr>
<tr>
<td></td>
<td>This category includes all the land occupied by forest trees, provided that the crown coverage (vertical projection of the crowns on the ground) is at least 10% of the area.</td>
</tr>
<tr>
<td></td>
<td>This very weak limit is primarily an indicator for classification between areas with wood coverage and areas with vegetation of the ‘landes’ and ‘maquis’. In the case of a young plantation, the density of the future trees must be at least equal to 500 plants/ha evenly spread. Christmas trees are classified under forest species.</td>
</tr>
<tr>
<td></td>
<td>‘Bois et forêts’ (Woods and forests)</td>
</tr>
<tr>
<td></td>
<td>Wooded formations (other than poplar plantations) of 0.5 ha and over.</td>
</tr>
<tr>
<td></td>
<td>‘Superficie boisée hors forêt’ (Wooded area outside the forest)</td>
</tr>
<tr>
<td></td>
<td>Any wooded formation (other than poplar plantations) of less than 0.5 ha.</td>
</tr>
<tr>
<td></td>
<td>‘Bosquets’ (Woodland)</td>
</tr>
<tr>
<td></td>
<td>Area included between 0.05 and 0.5 ha.</td>
</tr>
<tr>
<td></td>
<td>‘Peupleraies en plein’ (Full poplar plantations)</td>
</tr>
<tr>
<td></td>
<td>Pure poplar plantation with an area of 0.05 ha or over and more than 10 m wide. If there is an agricultural crop associated with it, the area is classified under ‘associated poplar plantation’.</td>
</tr>
<tr>
<td></td>
<td>‘Coniferous’</td>
</tr>
<tr>
<td></td>
<td>Details on the definition of coniferous forest were not made available from the published statistics.</td>
</tr>
<tr>
<td></td>
<td>‘Broadleaved’</td>
</tr>
<tr>
<td></td>
<td>Details on the definition of broadleaved forest were not made available from the published statistics.</td>
</tr>
<tr>
<td></td>
<td>‘Mixed’</td>
</tr>
<tr>
<td></td>
<td>Details on the definition of mixed forest were not made available from the published statistics.</td>
</tr>
</tbody>
</table>


In the data tables in Ministère de l’Agriculture, de la Pêche et de l’Alimentation (1997), forest is divided into broadleaves, conifers and mixed (Table 4). A separate column shows
the area of poplars (poplar plantations) that were added to the class of broadleaves. The sum of broadleaved (including poplar plantations), coniferous and mixed forest figures matched well with EUROSTAT’s figures for forest land. OWL could not be clearly identified and extracted from the data. The only additional separation given in the statistics is ‘wooded areas outside the forest’ (superficie boisée hors forêt). However, these do not match well with the OWL category. It was unclear from the data as to whether these areas should be regarded as forest or not. According to the statistics in the EUROSTAT publication these areas were not included under forest land. The precise definition of OWL in France would need more in-depth investigation and clarification. As a result, the map for OWL should be seen as preliminary and interpreted in the knowledge of these shortcomings.

Table 5. Terms and definitions of forests for Italy.

<table>
<thead>
<tr>
<th>Italy</th>
<th>‘Forest’</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Forest area: a territory with one or more of following characters:</td>
</tr>
<tr>
<td></td>
<td>• Purpose to produce wood or non-wood goods currently regarded as forest;</td>
</tr>
<tr>
<td></td>
<td>• Contain tree or bush stands with direct or indirect function of protection;</td>
</tr>
<tr>
<td></td>
<td>• Contain spontaneous tree or bush stands with naturalist, scenic or recreation function.</td>
</tr>
<tr>
<td></td>
<td>Also included were areas temporarily without a stand because of cutting or exceptional occurrences. Minimum size of a forest area is 2000 m². Trees in smaller groups than this are not assessed by the Inventario Forestale Nazionale. Minimum width is 20 m. Canopy coverage of a minimum of 20% is requested. Non-forest areas with a size of no more than 2000 m² and included in forest areas are classified as ‘included areas’.</td>
</tr>
</tbody>
</table>

‘Other wooded land’

According to the inventory specialist the category of ‘special formations’ belongs to the OWL class. Special formations include bushland or maquis, rock-wood formations and riparian forests. Maquis had been fully regarded as OWL. For the riparian forest only the bushland component was used for OWL. The same applied for the rock-wood formations.

‘Coniferous’

Forest with dominance of >75% of basal area of coniferous species

‘Broadleaved’

Forest with dominance of >75% of basal area of broadleaved species

‘Mixed’

In the Inventario Forestale Nazionale there are two categories, namely ‘mixed with a prevalence of conifers’ and ‘mixed with a prevalence of broadleaves’. These two categories combined formed the mixed forest class.

Source

Data: Ministero dell’Agricoltura e delle Foreste, 1988; Tosi, personal communication, 1999.

Terms and definitions: EC, 1997; Ministero dell’Agricoltura e delle Foreste, 1988; Tosi, personal communication, 1999.
For Italy, the data from the Italian forestry statistics – the 1985 Inventario Forestale Nazionale (Ministero dell’Agricoltura e delle Foreste, 1988), were allocated to the 5 classes. There were difficulties in identifying the amount of OWL. In general, OWL was to be found in the national statistics under the categories ‘special formations’ consisting of maquis or bushland, rock-wood formations and riparian forests (Table 5). The categories were divided proportionally according to the sub-country regions in order to get the best results for the class of OWL (Tosi, personal communication, 1999). In the new Inventario Forestale Nazionale, the UN-ECE/FAO Forest Resources Assessment 2000 definitions will be adopted (ISAFA & MIPAF, 1999). The second inventory, however, has not yet been undertaken.

The data input best suited for the pixel to pixel ratio scaling process using national inventory data are listed in Appendix 3.
3 Methods

3.1 Pan-European forest maps using AVHRR data

The input data were forest area estimates by tree species for units of 1 km². These estimates were computed using an image mosaic of NOAA-AVHRR data and CORINE Land Cover database. The input image mosaic was compiled using 49 images of the AVHRR instrument of NOAA-14 satellite. The individual images were calibrated into reflectance values and geo-coded before the compilation. The spectral values in the mosaic were reflectance means of overlapping pixels that were considered to be cloud-free. In most locations, the number of overlapping pixels was 3 or 4. The mosaic comprised the pan-European area up to the Ural Mountains. The images were from summer 1996, except one image that was from 1997 (Figure 4).

The mosaic was separated into three geographic strata: Atlantic; Mediterranean; and Temperate & Boreal. The separation follows the major vegetation zones (Figure 5). The boreal zone was combined with the continental temperate zone because the CORINE data were not available for the boreal region. Forest variables were estimated separately for each stratum.

In the first stage of the estimation, an unsupervised clustering to 75 classes was made to the image (step 1 in Figure 3). Only a sample of the pixels of the mosaic was involved in the clustering. The sample consisted of $2 \times 2$ pixel groups (observations) that were homogeneous in their reflectance values. Using the reflectance means of the observations, the bi-normal distributions were estimated for the classes of the unsupervised clustering. Observations that were located close to the edges of the bi-normal distribution were excluded from further processing (step 2). Squares of 500 × 500 m surrounding the centre of the observations were defined on the CORINE Land Cover database so that the centre of a square was at the centre of an observation. At these squares, the areas of the forest variables were computed from the CORINE database (Figure 6 and Table 6). The mean values of forest variables were computed for the classes from unsupervised clustering (step 3).

The estimate of the area of a forest variable $FP(x)$ within a pixel $(x)$ was obtained by multiplying the class membership probabilities $P(c | x)$ by the class forest variable means ($FP_c$), and summing over all the classes (step 4):

$$ FP(x) = \sum_{c=1}^{N} P(c \mid x) FP_c $$

$FP$ represents a weighted average of the forest variable values of the classes of unsupervised clustering.

Finally, the stratum-wise estimates were combined into one digital database that covered the whole European area. The estimation method is described in detail in Häme et al. (2000 and in press).
Figure 3. Computation of the estimates using NOAA-AVHRR and CORINE data.
Figure 4. The image mosaic in the CORINE version of the Lambert equal area projection. Red = AVHRR band 1; Green = AVHRR band 2; White = cloud.

Figure 5. The three geographic strata used in the probability estimation.
Table 6. Statistics of the three unsupervised classifications.

<table>
<thead>
<tr>
<th>Clustering</th>
<th>Number of clusters</th>
<th>Number of observations in clusters</th>
<th>Proportion of whole image %</th>
<th>Number of observations in largest cluster</th>
<th>Number of observations in smallest cluster</th>
<th>Size of CORINE sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atlantic</td>
<td>75</td>
<td>65 039</td>
<td>8.2</td>
<td>2 345</td>
<td>24</td>
<td>36 187 9 047</td>
</tr>
<tr>
<td>Mediterranean</td>
<td>75</td>
<td>128 064</td>
<td>17.6</td>
<td>3 469</td>
<td>35</td>
<td>86 466 21 616</td>
</tr>
<tr>
<td>Temperate &amp; Boreal</td>
<td>75</td>
<td>661 043</td>
<td>11.8</td>
<td>25 426</td>
<td>48</td>
<td>77 086 19 272</td>
</tr>
</tbody>
</table>

Figures 7, 8, 9 and 10 show that the highest estimates for broadleaved forests are in Central Europe and in the area of the Ural Mountain Range. Conifers dominate Northern Europe. The mixed forest class in the CORINE database may not be consistent, because the proportion of mixed forest is very low in the territory that belonged to the Atlantic stratum. OWL occurs almost exclusively in the area of the Mediterranean stratum. In Northern European forests the proportion of OWL is in reality significant due to the abundance of peatland. Since the CORINE database did not cover the boreal forests, no reference data for the northern peatland existed. The OWL in the north was, therefore, underestimated.
Figure 7. Estimates of broadleaved forest within a pixel.

Figure 8. Estimates of coniferous forest within a pixel.
Figure 9. Estimates of mixed forest within a pixel.

Figure 10. Estimates of OWL within a pixel.
3.2 The calibration process (pixel-by-pixel ratio scaling)

3.2.1 The confusion matrix

The confusion matrix has a long history in applications of remotely sensed data for vegetation cover classification. It has been used for estimating the overall accuracy of the classification, but also for adjusting values obtained by the classification method to yield global estimates for a single image. The following example, taken from Hay (1988), is used to illustrate the use of the confusion matrix.

Table 7. Confusion matrix in assessing land cover classes X, Y and Z (in any area units).

<table>
<thead>
<tr>
<th>Image interpretation</th>
<th>Ground</th>
<th>Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>57</td>
<td>8</td>
</tr>
<tr>
<td>Y</td>
<td>7</td>
<td>42</td>
</tr>
<tr>
<td>Z</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Totals</td>
<td>66</td>
<td>55</td>
</tr>
</tbody>
</table>

The scaling factor in the calibration process is the ratio of the column to the row total. The data in Table 7 suggest that class X is overestimated by 77/66, and should be scaled by multiplying it by 66/77. Table 8 shows the results for another location, to which the scaling ratios derived from Table 1 have been applied.

Table 8. Application of scaling ratio (taken from Table 7) to new location (in which the image data have been calibrated with ground survey data).

<table>
<thead>
<tr>
<th>Ratio of column to row total in ground truth survey (from Table 7)</th>
<th>Results for a new location</th>
<th>Scaled new results</th>
<th>Scaled new results, totals corrected</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C (A x B)</td>
<td>D (Totals B/Totals C x C)</td>
</tr>
<tr>
<td>66/77</td>
<td>X</td>
<td>78</td>
<td>66.9</td>
</tr>
<tr>
<td>55/58</td>
<td>Y</td>
<td>66</td>
<td>62.6</td>
</tr>
<tr>
<td>76/62</td>
<td>Z</td>
<td>92</td>
<td>112.8</td>
</tr>
<tr>
<td>Totals</td>
<td>236</td>
<td>242.3</td>
<td>236.0</td>
</tr>
</tbody>
</table>

After applying the calibration, the totals may still differ from the original totals making a further correction necessary. Therefore, the third column in Table 8 is multiplied by the ratio 236/242.3.
When the above approach is applied on a pixel by pixel basis, the class distribution within each pixel has to be estimated. Ground surveys can be used as well as other, independent and more reliable information sources to scale the class coverage within a specific geographic area.

3.2.2 Adjustment of proportional cover type estimates to match with statistics

A set of formulas is presented that represent the algorithm in mathematical terms. The formulas help to illustrate the example presented in section 3.2.3. To simplify the presentation of the matching algorithm it is presumed that the calibration region area is a rectangle consisting of picture elements in \(c\) columns and \(l\) lines.

Notations:

- \(X^{(a)}\) percentage value of a target variable \(a\) for the calibration region from the statistics
- \(\eta\) number of target variables \(a\) (land cover types)
- \(x^{(a)}(i, j)\) percentage estimate of the proportion for target variable \(a\) in a pixel \((i, j)\)
- \(c, l\) number of columns and lines in the image of the calibration region
- \(w^{(a)}\) coefficient for adjusting the target variable values to match with the statistics
- \(x^{(a)}_r(i, j)\) adjusted estimate of the proportion of the target variable \(a\) in a pixel \((i, j)\)
- \(p(i, j)\) sum of adjusted target variable estimates in a pixel \((i, j)\)
- \(s(i, j)\) coefficient for scaling the adjusted variable estimates \(x^{(a)}_r(i, j)\) to percentage scale [0,100]
- \(x^{(a)}_{rs}(i, j)\) adjusted and scaled percentage estimate of the target variable \(a\) in a pixel \((i, j)\)

The algorithm:

\[
\frac{X^{(a)}_r}{X} = \frac{\sum_{i=1}^{c} \sum_{j=1}^{l} x^{(a)}_r(i, j)}{c \cdot l} \quad \text{(Equation 1)}
\]
This procedure is repeated by inserting the adjusted and scaled values resulting from Equation (6) in place of \( x^{(a)}(i, j) \) in Equations (1) and (3) until the chosen threshold value for the differences has been reached:

\[
\text{diff}^{(a)} = \frac{\sum_{i=1}^{n} \sum_{j=1}^{l} x^{(a)}_{rs}(i, j)}{c \cdot l} \quad (\text{Equation 8})
\]

Equation (8) gives the final calibrated proportions for the target variables \( a \) in the calibration region.

### 3.2.3 The practical example

Table 9 shows the process of pixel to pixel ratio scaling for an area of \( 3 \times 3 \) pixels, each pixel having an estimate for three ground cover classes ('forest', 'OWL' and 'other land'), the sum of which totals 100%. It illustrates the calibration procedure and the steps involved with reference to the above-described algorithm.
A. Match with statistics
1. The theoretical example consists of an area of $3 \times 3$ pixels. The area has three different variable layers ($B_1 \ldots D_3$, $B_5 \ldots D_7$, $B_9 \ldots D_{11}$) corresponding to the three land cover types. In the first pixel the AVHRR-estimated proportions are as follows: forest is 10.0% ($B_1$); OWL 10.0% ($B_5$); and other land cover 80.0% ($B_9$).
2. In the statistics, for the same $3 \times 3$ pixel area there are: 18.0% forest ($A_4$); 25.0% OWL ($A_8$); and 57.0% other land ($A_{12}$).
3. The sum of the 3 proportions for each pixel is 100% ($B_1 + B_5 + B_9 = B_{13}$; $C_1 + C_5 + C_9 = C_{13}$; etc.).
4. The total mean of AVHRR-estimated forest in the $3 \times 3$ pixel area is 15.11% ($B_1 \ldots D_3 \rightarrow E_4$, derived using Equation 1 in the algorithm).
5. The area of forest in the statistics is 18.0% ($A_4$).
6. This results in a ratio of 18.0/15.11 = 1.191 ($F_4$, Equation 2).
7. During ‘pixel round 1’ all original forest pixel values ($B_1 \ldots D_3$) are multiplied by the ratio 1.191 ($F_4$). The first resulting pixel value is $10 \times 1.191 = 11.9$ ($G_1$) (= $B_1 \times F_4$, Equation 3).
8. This is performed in order to obtain the mean 18.0% ($J_4$) - as recorded in the statistics. After pixel round 1, the average of the pixels ($J_4$, $J_8$, $J_{12}$) is naturally the same as the forest proportion in the statistics.

B. Match within pixels
9. Now, however, the sum for each pixel (Equation 4) is not 100%. The first pixel has a value of $11.9 + 8.0 + 85.0 = 104.9$ ($G_1 + G_5 + G_9 = G_{13}$).
10. Pixel values are then adjusted so that the sum for each pixel is 100% by deriving a ratio for each pixel: 100/actual sum of the 3 pixel values (Equation 5).
11. For the first pixel ($G_1$), the ratio is $100/104.9$ ($100/G_{13}$) = 0.953. For the second pixel ($G_2$), the ratio is $100/105.9$ ($100/G_{14}$) = 0.944.
12. In the total round 1, the pixel values of pixel round 1 will be multiplied by their corresponding ratios. The first pixel will obtain the value $11.9 \times 0.953$ ($G_1 \times \text{ratio for } K_1 = 11.4$ ($K_1$, Equation 6).
13. The total for 3 variables for all pixels will be 100.0% after pixel round 1 ($K_1 + K_5 + K_9 = K_{13}$; $L_1 + L_5 + L_9 = L_{13}$; etc.).
14. However, again, the mean does not match the forest cover of 18.0% – but is now closer, 17.6% ($K_1 \ldots M_3 \rightarrow N_4$, Equation 8).
15. This process is repeated until the means of the $3 \times 3$ areas equal or are judged to be close enough ($\pm 0.2$%-units, Equation 7) to the statistics and the pixel sums are equal to 100%. In this example, it is the case after 2 rounds. The calibrated forest proportion is 17.93% ($W_4$), OWL 25.14%, and other land 56.93% (Equation 8). Since the last round was the ‘total round’ the sum of land cover classes in each pixel is 100%.
Table 9. The process of pixel to pixel ratio scaling – a practical example.
Rows 1–3, Forest; Rows 5–7 OWL; Rows 9–11, Other land; Rows 13–15, Total.

| Statistics  | A   | B   | C   | D   | E   | F   | G   | H   | I   | J   | K   | L   | M   | N   | O   | P   | Q   | R   | S   | T   | U   | V   | W   |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| A          | 10.0 30.0 10.0 | 11.9 35.7 11.9 | 11.4 34.1 12.0 | 11.6 34.9 12.3 | 11.6 34.7 12.3 |
| B          | 22.0 5.0 7.0 | 26.2 6.0 8.3 | 24.7 6.3 8.8 | 25.4 6.4 9.0 | 25.1 6.5 9.1 |
| C          | 23.0 25.0 4.0 | 27.4 29.8 4.8 | 26.6 28.9 5.4 | 27.2 29.7 5.5 | 27.1 29.5 5.6 |
| D          | 18.00 | 15.11 | 1.191 | 18.00 | 17.56 | 1.025 | 18.00 | 17.93 | 18.00 | 17.93 | 18.00 | 17.93 |
| E          | 10.0 20.0 30.0 | 8.0 16.0 24.0 | 7.6 15.3 24.1 | 7.4 14.7 23.3 | 7.3 14.6 23.3 |
| F          | 12.0 45.0 47.0 | 9.6 36.0 37.6 | 9.1 37.9 39.7 | 8.8 36.5 38.3 | 8.7 36.8 38.6 |
| G          | 23.0 25.0 69.0 | 18.4 20.0 55.2 | 17.9 19.5 62.3 | 17.2 18.8 60.1 | 17.1 18.7 61.2 |
| H          | 25.00 | 31.22 | 0.801 | 25.00 | 25.92 | 0.965 | 25.00 | 25.14 | 25.00 | 25.14 | 25.00 | 25.14 |
| I          | 80.0 50.0 60.0 | 85.0 53.1 63.7 | 81.0 50.6 63.9 | 81.7 51.1 64.5 | 81.1 50.7 64.5 |
| J          | 66.0 50.0 46.0 | 70.1 53.1 48.9 | 66.2 55.6 41.5 | 66.7 56.3 50.0 | 66.2 56.7 52.4 |
| K          | 54.0 50.0 27.0 | 57.4 53.1 28.7 | 55.6 51.6 32.3 | 56.1 52.0 32.6 | 55.8 51.8 33.2 |
| L          | 57.00 | 53.67 | 1.062 | 57.00 | 56.52 | 1.008 | 57.00 | 56.93 | 57.00 | 56.93 | 57.00 | 56.93 |
| M          | 100.0 100.0 100.0 | 104.9 104.9 99.7 | 100.0 100.0 100.0 | 100.7 107.0 100.0 | 100.0 100.0 100.0 |
| N          | 100.0 100.0 100.0 | 105.9 95.1 94.8 | 100.0 100.0 100.0 | 100.9 99.3 99.3 | 100.0 100.0 100.0 |
| O          | 100.0 100.0 100.0 | 103.2 102.9 88.7 | 100.0 100.0 100.0 | 100.5 105.5 98.2 | 100.0 100.0 100.0 |
| P          | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 |
| Q          | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 |
| R          | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 |
| S          | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 |
| T          | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 |
| U          | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 |
| V          | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 |
| W          | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 | 100.0 100.0 100.0 |
3.3 Process of calibration for classifying the pixels into two classes

In a second case, where there are two target classes, the correction process is simpler. In the traditional classification approach, it is assumed that if a pixel is 50% or more of a certain class, it will be classified to that particular class. In the case of other information sources, (which are believed to be more accurate), the aim is to find a threshold giving the desired output as the result. In defining the output, a simple iteration method is recommended. This calibration method of classifying the pixels into two classes was not applied in the course of the work.
4 Results

4.1 Explanatory notes

The calibration method described in Chapter 3.2 was implemented under consideration of the following remarks:

*The calibration process (pixel-by-pixel ratio scaling)*

The calibration process was repeated twice and no threshold value for differences was set. This approach meant that the threshold after two rounds represented the actual threshold resulting from the applied calibration process. Therefore, the threshold values varied between the individual polygons.

*No data pixels*

There was a considerable amount of ‘no data pixels’ in the original probability maps representing either clouds and/or snow. In the calibration procedure each of the ‘no data pixels’ was given the label ‘nodata’ eliminating these pixels from further processing.

*Borderline-pixels*

In most cases, the borderline-pixels can be clearly assigned to a particular polygon (the pixel was completely or the majority of the pixel was within a particular polygon). In some cases, the borderline-pixels were found equally in neighbouring polygons; these overlapping pixels were processed in the merging operation by including them in only one polygon. In another set of cases, the borderline-pixels did not fall within any polygon; these missing pixels were replaced with values from the original probability map.

*Overlap original probability map and NUTS vectors*

In some cases, the original probability maps did not fully overlap with the NUTS vectors. This was most visible when calibrating small archipelagos. The extracted area was partially located in the water area. In general the misplacement was not more than one kilometre. This effect caused an increase in the distortion for those areas.

4.2 Forest map calibrated to match the EUROSTAT statistics

In this analysis the calibrated forest map (see map on pages 38–39) based on EUROSTAT statistics was compared with the pan-European forest map derived from the AVHRR mosaic. Graphs are presented below in order to illustrate the impact of the calibration procedure on the original computations of the AVHRR image data. Both the calibration procedure and the comparisons have been implemented at the finest detail possible, depending on data availability from the statistics.

The availability of statistical data varied considerably between the different EU countries. Seven countries (Belgium, Greece, Luxembourg, Ireland, the Netherlands,
Portugal and Sweden) distinguished forest area at the country level only, resulting in the application of the calibration procedure at the national scale. The other eight EU countries (Austria, Denmark, France, Finland, Germany, Italy, Spain and the UK) provided forest area statistics at the regional level. The result of the calibration at the national level, and the differences to the AVHHR image-derived estimates can be seen in Figure 11. In Belgium, Luxembourg, the Netherlands and Sweden, the differences are minor. In Greece and Portugal, the AVHHR image-derived estimates appear to underestimate percentage forest cover, whereas in Ireland there is an overestimate of the forest area as derived from the AVHRR mosaic. However, a considerable amount of detail is lost if statistical data of forest area are available at the country level only (especially in cases of large countries with high forest cover, such as for Sweden), thus restricting the calibration procedure to the rather broad national scale. As the reference areas of the calibration are consequently rather large, as in the case of Portugal, Sweden and Greece, the overall result cannot show the discrepancies between the image and the statistics for particular regions within a country.

![Figure 11](image.png)

**Figure 11.** Comparison of EUROSTAT forest statistics, forest cover estimates derived from the AVHRR mosaic, and the calibrated results for seven sample countries in the EU for the class forest at the country level (NUTS level-0).

This is illustrated for Finland (Figure 12) and Spain (Figure 13). For both countries the calibration procedure could be applied at a more detailed level (i.e. at the NUTS level-2). The complete set of the scaling outputs based on the available NUTS level statistics is given in Päivinen et al. (2000).
In the case of Finland, Figure 12 indicates that on the southern coast (Uusimaa) and in the North (Pohjois-Suomi, FI15) the AVHRR image-derived estimates tend to overestimate forest, but in the central part of the country the AVHRR estimates are closer to statistics. Overall, the calibration procedure worked satisfactorily. However, areas of water, such as lakes, as well as the inaccurate representation of the coastline influenced the calibration process, especially in the polygon Ahvenanmaa/Åland (FI2). In the polygon Ahvenanmaa/Åland the calibrated classification result was lower by 13.4%-units in comparison with the statistical data, and therefore, was not taken into account. Otherwise the values of the statistics and the calibrated classification differed by much lower amounts (e.g. by 0%-units in the polygon ‘Väli-Suomi’, and 0.5%-units in the polygon ‘Etelä-Suomi’).

In Spain, there is considerable variation between the EUROSTAT forest statistics and the AVHRR image (Figure 13). In all but two polygons the forest class is underestimated in the AVHRR image-derived estimates. The percentage of variation ranged from 1%-unit to more than 10%-units. Despite this variation, the calibration operation could be applied satisfactorily to the 16 polygons at NUTS level-2. The values of the statistics and the calibrated classification differed by, for example, 0%-units in the polygon ‘Principado de Asturias’ and 1.2%-units in ‘Communidada Foral de Navarra’.

For Austria, the calibrated results showed both underestimates and overestimates of forest area for the different polygons. However, in most polygons the AVHRR image-derived estimates and the EUROSTAT statistics correspond well.

The forest area percentages derived from the AVHRR mosaic, for the NUTS level-2 polygons for Denmark are in all cases higher when compared with the statistics. In the polygon DK001 (København and Fredriksberg Kommuner) there is no forest reported in the EUROSTAT statistics, but more than 10% in the AVHRR image. In DK003

**Figure 12.** Comparison of EUROSTAT forest statistics, forest cover estimates from the AVHRR mosaic, and the calibrated results for Finland for the class forest at NUTS level-2 (excluding Ahvenanmaa, FI2).
Combining Earth Observation Data and Forest Statistics

(Frederiksborg Amt), 14% of the area is covered by forest according to the statistics. The AVHRR image gives an estimate of 23%.

The forest area estimates for the various sub-regions of Germany are both overestimated and underestimated in the AVHRR image-derived estimates when compared with the reported statistics. Overall, the AVHRR image data and the statistics matched satisfactorily. The forest area is considerably overestimated in two polygons of the image (i.e. in the cities of Bremen and Hamburg, DE5 and DE6).

In Italy, there is considerable variation between the AVHRR image-derived estimates for the forest class for the polygons and the forest class as reported in the statistics. In general, a higher percentage of forest area is observed in the AVHRR image. Only in a few cases is the forest area underestimated in the image.

In France, a general observation was an underestimation of the forest area in the original AVHRR-image as compared with the EUROSTAT statistics. Figure 14 illustrates the differences between the original non-calibrated AVHRR forest mosaic and the calibrated forest database. Excerpts from both databases, have been taken for the Aquitaine region (NUTS FR61). The EUROSTAT statistics gave the forest cover as 43.2%. In the AVHRR
image only 24% of the region is categorised as forest. The higher amount of forest and its spatial distribution can be seen in Figure 14. The proportion of forest is higher in the calibrated forest image on the right.

![Figure 14](image)

**Figure 14.** Selection taken from the original forest proportion mosaic (left) and the calibrated forest database (right) for the Aquitaine region of France.

In the UK, the AVHRR image-derived estimates and the EUROSTAT statistics matched very well. All 11 NUTS polygons were calibrated successfully.

### 4.3 Tree species groupings calibrated to match the country statistics

National forest statistics were used for three EU countries (Finland, France and Italy). The statistics were available at a more detailed polygon level (see Figure 2) at which the calibration was performed for all five target variables. Only for these data, were tree species maps produced. The general result shows that there was a tendency for the image to give rise to underestimates of forest area.

Figure 15 shows the calibration output for the forest class for Finland based on the national forest area statistics at the NUTS level-3. In Finland, national statistics include a differentiation of forest area into individual tree species. Since the mixed forest class includes mixed spruce-pine and mixed birch-alder forest, the calibration of the coniferous and broadleaved areas only were taken into consideration. The mixed forest class was not calibrated. It should be noted that the total area of broadleaved and coniferous forest adds up to 98.5%, and not 100%. The temporarily treeless area of 1.5% (clearcut areas) within the forest (see Appendix 3) may not be accounted to either of the classes.
For Finland, a smaller forest area percentage for the coniferous forest class is found in the original forest proportion mosaic (Figure 16).

In France, the forest area from the national statistics was studied at the NUTS level-3 and broken down to coniferous, broadleaved and mixed forest class. The broadleaved forest is slightly underestimated by the AVHRR image. The area of conifers was also slightly underestimated, but by an even lesser degree. Figure 17 shows the calibrated output for the proportion of coniferous forest in France at the NUTS level-3.

The comparison of the AVHRR image-derived forest estimates and the national statistics in Italy show good results for the forest class, and the coniferous and broadleaved forest classes. The mixed forest proportions are slightly higher in the AVHRR image. Figure 18 shows the scaling output as a calibrated broadleaved forest map that has been computed using national inventory statistics.

### 4.4 Other wooded land calibrated to match with the EUROSTAT statistics

The availability of data on other wooded land (OWL) varies between the EU countries to quite a large extent. In the case of six countries (Belgium, Greece, Ireland, the Netherlands, Portugal and Sweden), data were available for OWL at the country level.
Figure 16. Comparison of national forest statistics and percentage cover derived from the AVHRR image for coniferous and broadleaved forest classes in Finland (excluding Ahvenanmaa FI2). Bro = broadleaved; Con = coniferous. Re-digitising of a number of NUTS polygons was performed in order to match with the Forestry Centre Districts in Finland for which forest statistical data is provided. See Appendix 2 for Id-codes.
Figure 17. Map of coniferous forest in France, based on national forest statistics calibrated using 93 NUTS level-3 polygons.

Figure 18. Map of broadleaved forest in Italy, based on national forest statistics calibrated using 21 NUTS level-2 polygons.
Therefore, the calibration process was applied at the national scale. The other nine EU countries (Austria, Denmark, France, Finland, Germany, Italy, Spain and the UK) provided OWL statistics at the regional level, or indicated that the data were not available, or simply that OWL did not exist and the area was, therefore, zero. In general, central European countries, such as Austria, Denmark, Germany and Luxembourg reported that there was no OWL within these countries, as did the UK. Detailed OWL statistics at the NUTS level-2 were provided by France, Finland, Italy and Spain.

The result of the calibration at the national level and the differences to the AVHRR image can be seen in Figure 19. In all but one case, the percentage of OWL of the total land area is higher in the AVHRR image-derived estimates than in the statistics. This is most obvious for Portugal. In Sweden, however, the percentage of OWL in the EUROSTAT statistics is nearly 9%; in the AVHRR image it is only 2%.

Figures 20 and 21 show the results after applying the calibration procedure at the more detailed NUTS level-2. The statistics and the proportion of OWL provided by the EUROSTAT statistics and derived from the AVHRR image vary considerably. In Finland, the OWL class is under-represented in the AVHRR image; this is especially the case in Northern Finland. The statistics report 16% of OWL whilst the image estimate is only 2%. In Italy, OWL is generally overestimated although there are considerable differences between the northern and southern regions of Italy (Figure 21). In Northern Italy, the OWL statistics reported to EUROSTAT are generally higher, although in central and southern regions the estimates derived from the AVHRR image exceed those of the statistics.
4.5 OWL calibrated to match the national statistics

For Finland, the estimate percentages of OWL derived from the AVHRR images matched well with the national statistics, with the exception of the northern part of Finland (Figure 22). In the north, the AVHRR image shows considerably lower proportions of OWL than reported in the national statistics.
In the case of the Italian national forest statistics with regard to OWL, it proved too difficult a task to extract OWL from the available national forest statistics, largely because OWL is reported in a number of different nationally used classifications of forest land. The comparison of the AVHRR image-derived estimates and the national statistics in Italy showed considerable differences for OWL, the image showing greater proportions of OWL. An interesting observation in this context is that for OWL, the national inventory statistics report lower amounts of OWL (1.7 million ha) in comparison with those of EUROSTAT (3 million ha). The higher figures of OWL in the EUROSTAT statistics may be due to the possible inclusion of estimates of areas that are in the state of being naturally afforested (e.g. on abandoned pastures and fields that are no longer under management), and which have the characteristics of OWL.

### 4.6 Comparison of results to the CORINE classification

When looking at the EU-15 and comparing the area of forest as derived from the original AVHRR image (AVHRR classification), the calibrated data set and the CORINE, the original AVHRR image estimates of forest proportion are lower than those of the CORINE for seven of the countries. It is notably lower for France, Spain, Italy and Portugal, and notably higher in Finland, the UK and Ireland (Figure 23; see also Häme et al., in press). In France, Portugal and Spain the CORINE is closer to the statistics than the original AVHRR image.
Figure 23. Estimates of forest area for the EU-15 as derived from the CORINE Land Cover, the uncalibrated AVHRR classification and the calibrated AVHRR image data.

Figure 24. Estimates of forest area for the 22 NUTS level-2 areas of France as derived from the CORINE Land Cover, the uncalibrated AVHRR classification and the calibrated AVHRR image data.
Taking France as an example, and looking at the estimates of forest for each of the 22 polygons at NUTS level-2 areas, all but four of the areas possess lower estimates derived from the uncalibrated AVHRR image than from the CORINE. The most notable overestimation occurs for the island of Corsica (Figure 24).

In fact, if Corsica is taken out as a case study, and the breakdown of forest into broadleaved, conifer and mixed woodland is studied for Corsica alone, the AVHRR image, without calibration, tends to give rise to an overestimate for coniferous woodland (both compared with the official statistics and the CORINE) (Figure 25). For broadleaved forest the AVHRR image-derived estimates are higher than for the CORINE, but there is a slight underestimate when compared with the calibrated data set (Figure 26). The figures for mixed woodland show corresponding results for the CORINE and the AVHRR image-derived estimates (Figure 27), but the calibrated data set is considerably lower. Therefore, it would appear that the general overestimation stems from an overestimation of the coniferous woodland, as derived from the AVHRR data, or, as is also possible, an underestimation for coniferous woodland in the CORINE database. This is of course true, providing that one accepts the reliability of the national statistical data. It is also interesting to note that the official statistical data gives a very low estimate for mixed woodland, whilst those directly derived from the AVHRR image and from the CORINE are almost identical.

![Figure 25](image)
Figure 26. Estimates of broadleaved forest area for the 22 NUTS level-2 areas of France as derived from the CORINE Land Cover, the uncalibrated AVHRR classification and the calibrated AVHRR image data.

Figure 27. Estimates of mixed forest area for the 22 NUTS level-2 areas of France as derived from the CORINE Land Cover, the uncalibrated AVHRR classification and the calibrated AVHRR image data.
The original AVHRR classification greatly overestimated the OWL class in Corsica, Languedoc and Provence, compared with the CORINE data, but overestimated it as much when compared with the calibrated results (and statistics). This problem, occurring also in some other parts of Europe, refers to the problems in having common nomenclature between field inventories and the aggregated CORINE classification.

The spatial distribution of these discrepancies between the CORINE database and the uncalibrated and calibrated AVHRR database is illustrated for an example extracted from France in Figure 28.

**Figure 28.** Extract of the uncalibrated (above) and calibrated (below) forest AVHRR database for France and the CORINE forest polygons.
It can be seen that under the CORINE forest polygons (hatched), the AVHRR forest proportions vary from 0–75% to 0–90% for the uncalibrated and calibrated image data, respectively. Similarly, outside the CORINE polygons in the so-called non-forest land, there appears to be areas with low forest cover according to the AVHRR derived forest proportion database.
5 Conclusion and Discussion

In relation to the AVHRR image-derived estimates, errors can arise from the mosaicking procedure, seasonal effects in the imagery, atmospheric correction (or the lack of it) and mis-registration of the mosaic. For example, on the coastline, the NUTS boundaries did not always coincide completely with that of the AVHRR image coastline, thus introducing mis-registration errors. This occurred in the case of the Aland Islands in Finland. In addition, the borderline-pixels between individual polygons were found to belong to one, or both of the neighbouring polygons (overlapping pixels), or to neither of the polygons (missing pixels). The overlapping pixels were assigned to only one polygon when merging the grids. Missing pixels were replaced from the original proportion images or were interpolated from neighbouring pixels.

There are also errors, which are introduced when clustering the AVHRR image data, extracting the ground data and assigning the percentage presence of each target class within each pixel (see also Häme et al., in press). Some of the most fundamental considerations relate to the quality of the image data and the procedures used to process them.

Despite the processing of 49 AVHRR images to produce the image mosaic for the entire European area, the presence of cloud covered areas clearly reduced the precision of the estimated forest proportions. Over the Mediterranean countries and Southern Europe cloud cover was insignificant. However, in Austria, Germany and over the Alpine and Pyrenean mountain ranges, the ‘no data pixels’ (clouds, snow) were assigned with a label ‘nodata’ thus eliminating such pixels from further processing. This probably resulted in an underestimation of the forest area in the mountainous regions. An appropriate method to improve this situation could be to apply for example the CORINE raster or an elevation raster assigning ‘no data pixels’ to ‘nodata’ (clouds) or ‘zero’ (glaciers).

The spectral clustering of the mosaic uses a procedure whereby the search for $2 \times 2$ ‘homogeneous’ pixel squares tends to favour the selection of forest pixels, especially in areas of uniform coniferous woodland. This is because such forests possess a low reflectance and a high spatial homogeneity. As a consequence, the pixel groups accepted for the clustering process are biased towards forest cover, and not evenly distributed across all the land cover types present. Likewise, if OWL is considered to be inherently heterogeneous, it is likely that such cover types have been excluded from the clustering procedure, or at least under-represented.

CORINE Land Cover database was used to assign a forest proportion (or other land cover proportion) to the AVHRR pixel clusters. It must be remembered that the database does not represent the entire European area, and in fact, is very limited in terms of its coverage in the boreal zone.

One of the main considerations in any satellite-based forest assessment is that of dealing with the fact that there is a fundamental difference between ‘forest’ as observed on the ground (i.e. in ground-based inventories), and ‘forest’ as interpreted from the spectral response of vegetation cover recorded by satellite-borne sensors. Obviously satellite data cannot distinguish between different land use types. For example, ground inventories
regard ‘temporarily unstocked areas’ as forest (UN, 2000), but classification procedures applied to satellite data may assign hay fields, pasture lands and clear cut areas to the same output class. Following on from this, is the consideration of nomenclature. Although the EUROSTAT statistics use the same nomenclature for forest and other wooded classes based on the definitions used in the UN-ECE/FAO-1990 Temperate and Boreal Forest Resources Assessment (UN, 1992), the individual countries collect their inventory data according to their own developed procedures and definitions. These procedures and definitions may vary considerably to those used by the international reporting bodies. In this study, the three sample countries (Finland, France and Italy) illustrate this problem very clearly, not least for the categories of ‘mixed’ and ‘OWL’. The collection of information on ‘OWL’ on the ground is generally not carried out, but often comprises an amalgamation of various classes at the national level. Furthermore, the rather vague definitions of ‘forest’ in the CORINE nomenclature, together with the fact that the database has been generalised, and is not validated, render the CORINE less than ideal as the reference database. It was selected as such, in the absence of any other suitable reference material for the geographical area under consideration.

The national forest statistical data used for calibrating the proportion estimates also have to be accepted with reservations. It should be kept in mind that not only do the ground-based statistical data relate to a number of years over which the data were collected, but also that there is a time difference between the statistical data collection and that of the acquired satellite data. The timing and the frequency of national forest inventories are quite different between countries. For example, the reference year is 1983 for the Netherlands, and 1995 for France. However, the forest cover is not subject to considerable change in the EU countries.

The reservations described above refer mainly to the technical problems related to the data. More harmonised nomenclature, better ground data and more cloud-free satellite data would yield better results. The methodology proved to be applicable in combining two independent data sources to one value-added product. It is currently being used in a project to complete the forest map of Europe at the regional/province level.
References


### Appendix 1. Eurostat Forest Statistics

Wooded area (1000 ha) by region (NUTS level-2), 1995

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København og Frederiks-berg kommuner

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Baden-Württemberg

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#### Finland
- 1995: 20032
- 2971: N/A

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**Source:**

Appendix 2. Finland after Digitisation

**Figure 1.** Left: Finland and NUTS 3 regions. Right: Finland and Forestry centre districts.

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Appendix 3. National Forest Statistics as Input Data for the Calibration Process

1) Finland
Data from FFRI, 1998.

Tree species dominance on forest land, 1988-1997

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2) France

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### Woods and Forests

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### Appendix 3. National Forest Statistics: Italy


#### Table: Land area (ha)

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## Appendix 4. EUROSTAT Forest Statistics, the AVHRR Classification and the Calibrated Classification (in %)

For = forest land; Owl = other wooded land; Oth = other land.

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| UK2 | Yorkshire and Humberside | Owl | 94.3 | 89.0 | 94.2 |
| UK3 | East Midlands | For | 4.5 | 8.2 | 4.5 |
| UK3 | East Midlands | Owl | 95.5 | 91.8 | 95.5 |
| UK3 | East Midlands | Oth | 6.4 | 6.9 | 6.4 |
| UK4 | East Anglia | For | 93.6 | 93.1 | 93.6 |
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Appendix 5. National Statistics, the Image and the Calibration Results (in %)

(Bro = broadleaved forest; Con = coniferous forest; Owl = other wooded land; Mix = mixed forest; Oth = other land).

1) FINLAND NUTS 3

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