

GSEFM Forest Type Map: Product Sheet

Product Description:

Maps where the forest class is sub-divided into several forest type classes

Product properties:

Geometric accuracy	RMS error < 15 m for HR data with spatial resolution of 30 m
Map classes	<p>- Option 1: Forest Stratification for combined EO/NFI Products. Forest Types Level 1: Deciduous Forest, Coniferous Forest, Clearings</p> <p>Forest Types Level 2: Within deciduous forest: 2-4 volume classes, within coniferous forest: 2-4 volume classes.</p> <p>This type of stratification is designed for central European forests. Other class definitions may be used for stratification in other ecological regions.</p> <p>- Option 2: Forest type map with Coniferous / Deciduous Species Mixture Classes Forest Types Level 1: Deciduous Forest, Coniferous Forest, Clearings</p> <p>- Option 3: Forest types for a basic forest GIS in central Europe Fir-dominated, Beech-dominated, Pine-dominated, Oak-dominated, Other; each of these classes separated in two age classes</p> <p>Further options for forest type maps, depending on regional conditions and requirements.</p>
Available class definitions	<ul style="list-style-type: none"> - FAO standards definitions. - CORINE standard. - Customised user specific.
Geometric resolution / spatial resolution	Pixel size 30m/ 20m / 15 m / 10m / 5 m depending on the optical EO data used.
Minimum mapping area	0.05 ha to 1 ha (depending on requirements)
Map projection	Standard formats and user specific formats available.
Data format	Standard raster data formats available (e.g. GEOTIFF GeoTIFF Format Specification GeoTIFF Revision 1.0). Complete coverage or user defined image blocks.

Input data:

EO data	<p>Ortho-Images and mosaics of Landsat-5 TM, Landsat-7 ETM+, SPOT 5, IRS 1C/D (standard).</p> <p>Optional: Landsat ETM 7 (two data acquisitions in different years: target year plus previous year) increases accuracy in the range of 2 to 8 percent, depending on the regional land use and land use change characteristics.</p>
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Optional additional or specific properties:

High precision forest area map	Standard EO Data source: Spot 5 or IRS pan in combination with Landsat ETM or equivalent.
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