

GSEFM Forest Area / Forest Area Change Map: Product Sheet

Product Description:

Thematic map of forest and non forest area.

Change Map of forest and non forest and changes between a target and a reference year. This product tracks the forest cover changes occurring within a predefined time interval. It reveals where and to what extent forest areas increase or decrease.

Product properties:

Geometric accuracy	RMS error < 15 m for HR data with spatial resolution of 30 m
Map classes	Forest, Non Forest. Optionally the non forest class is subdivided into several coarsely defined land use classes. Change Map: several change classes according to standard classifications
Available class definitions	<ul style="list-style-type: none">- FAO standard definition of forests and other wooded lands.- UNFCCC and KP forest definitions (in accordance with GPG and national forest definition within UNFCCC and KP)- Customisation of forest classification to national and regional forest definition.
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	Ortho-Images and mosaics of Landsat-5 TM, Landsat-7 ETM+, SPOT 5, IRS 1C/D (standard). 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.
---------	---

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.
SAR based forest cover map	EO Data source: ERS and ENVISAT
Land use / land cover of areas prior to or after change	Product for reporting of the forestry sector on forest area changes under UNFCCC and KP.