GSEFM Landuse / Land Cover / Land Cover Change Maps: Product Sheet

Product Description:

Thematic map with land use / land cover classes. The forest class is optionally differentiated into stands, stand elements and forest type classes.

Optionally changes are recorded in the form of mere updates or in form of change maps, documenting the land use, land cover or forest type status at two or more points in time.

Thematic map with land use / land cover classes and changes between a target and a reference year.

Product properties:

Geometric accuracy	RMS error < 15 m for HR data with spatial resolution of 30 m
Thematic layers	Map layers with land use/ land cover and forest type classes including change classes expressing changes between two dates in time. Optional meta data layers of temporal characteristics and input data sources are provided as map or GIS layers.
Map class	 LU/LC according to CORINE level 3 nomenclature and beyond. LULUCF mapping according to UNFCCC/ KP requirements (see GPG for LULUCF) FAO standard definitions.
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. <u>GEOTIFF GeoTIFF Format</u> <u>Specification GeoTIFF Revision 1.0</u>). 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:

Product type with high spatial accuracy (RMS 5 to 10 m)	Standard EO Data source: Spot 5 or IRS pan in combination with Landsat ETM or equivalent.