

# GSEFM Ortho Images and Mosaics: Product Sheet

## Product Description:

Georeferenced optical ortho-image or ortho-image mosaic based on various multispectral and panchromatic optical sensors with high spatial resolution (HR  $\leq$  30m;  $\geq$  4m).

## Product properties:

Geometric accuracy	RMS error $<$ 0.5 x spatial resolution: e.g. RMS error $<$ 15 m for HR data with spatial resolution of 30 m RMS error $<$ 5 m for HR data with spatial resolution of 10 m
Geometric resolution	Within a range of 2.5m to 30 m, depending on the original resolution of the image.
Map projection	Standard formats and user specific formats available.
Data format	Standard raster data formats available (e.g. <a href="#">GEOTIFF GeoTIFF Format Specification GeoTIFF Revision 1.0</a> ). Complete coverage or user defined image blocks.

## Quality standards:

Quality assurance	Guidelines for Best Practice and Quality Checking of Ortho Imagery. (Ref.: <a href="#">Mars ref: JRC IPSC/G03/P/SKA/ska D(2003)(2402)</a> ). ISO 19113:2002, ISO 19114:2003.
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## Input data:

EO data	HR data with spatial resolution $\geq$ 15 m: Landsat-5 TM, Landsat-7 ETM+, IRS 1C/D ms HR data with spatial resolution $\geq$ 5 m and $<$ 15 m: SPOT 5, IRS 1C/D pan Alternative EO data sources: SPOT 1-3, SPOT 4, Aster
Other geographic data	Digital Elevation Model. Horizontal resolution 10 m to 70 m (100 m). Topographic data or other data source providing georeference of objects visible on the images. To achieve the geometric accuracy properties the GCP reference data need to be of high geometric accuracy, at least of 0,2 x of the target accuracy of the EO data sets.