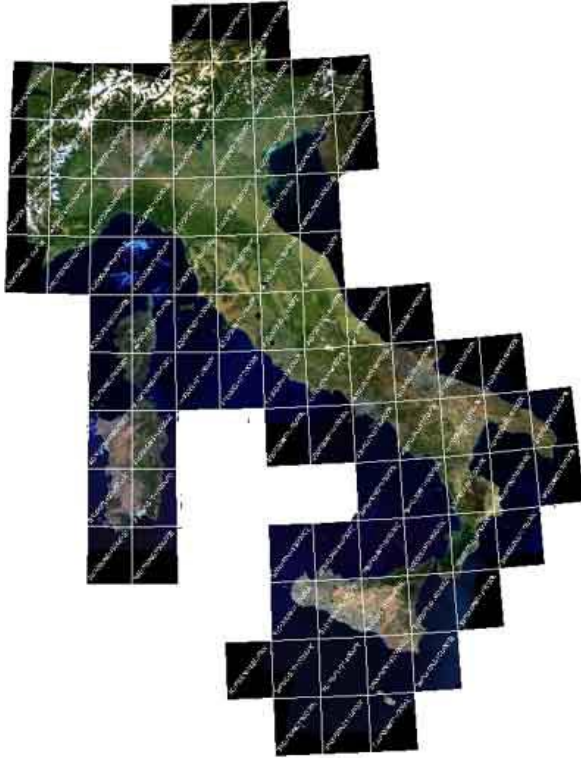


## Mosaico15 Italy

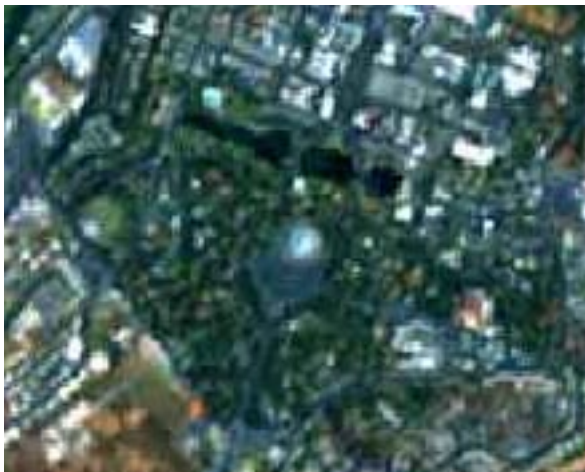
The 15-metre mosaic of Italy has been obtained through the ortho-rectification, pan-sharpening and mosaicing of 45 Landsat 7 scenes acquired over Italy between 1999 and 2001, mostly in the spring and summer seasons, with minimal cloud cover. The objective was to produce a single image in natural colours covering the whole of Italy at a resolution of 15 metres.

Mosaico15  
Italy



The resolution was obtained by the fusion of the high-resolution panchromatic band with the three visible-light multi-spectral bands, providing a data scale of about 1:50,000. The examples show a fragment of Mosaico15 in an urban area, and the superimposition of a *Istituto Geografica Militare* 1:50,000 map. The colour rendition of the final product, normally complicated by the infrared response of the panchromatic band, has been improved using a proprietary Eurimage algorithm.

Full 15m  
resolution  
(left)



Superimposed  
IGM  
1:50,000  
scale map  
(right)

The product has an accuracy of 30m RMSE and was generated using the reference system UTM32/ED50; resampling is by cubic convolution.

Mosaico15 Italy is sold as three products:

- Mosaico 15 Italy
- Mosaico 15 Tile
- Mosaico15 Regions

### Principal Applications

- Background and base for raster GIS
- Thematic updating of topographic and road maps (from 1:25,000 scale)
- Thematic updating of existing Land Cover maps (especially artificial areas)
- Clutter maps for telecommunications
- Geomarketing support
- 2D/3D visualisation for tourism/cultural activities
- Education, atlases, bases for meteorological and socio-cultural information

### Mosaico15 Tile

This product is sold as single tiles, as shown in the image, regularly spaced at 1-degree intervals in latitude and longitude. The complete coverage uses 92 tiles.

Il This product is sold as single tiles, as shown in the image, regularly spaced at 1-degree intervals in latitude and longitude. The complete coverage uses 92 tiles.

This product is intended for users who need geo-referenced images in natural colours over a wide area, independent of administrative boundaries and ready for use in a GIS application.

The file format for each tile is GeoTIFF with relative tfw, in a single, three-band file, delivered on CD or DVD.

A service for mosaicing adjacent files is available on request, as well as the complete Mosaico15 Italia, which can be supplied already mosaiced, using tiling specified by the client.



## Mosaico15 Regions

The Mosaico15 product is available for each of the 20 Italian regions. For each region, the rectangular image supplied covers the entire region up to approximately 2 km outside the regional border at 15 m resolution, while the rest of the image is at 150m – see figure.

The product is intended for clients with an interest in a particular region, needing a product in natural colours as a base for a GIS or other application.

The reference system is UTM32/ED50 for the regions of Abruzzo, Emilia Romagna, Friuli, Lazio, Liguria, Lombardia, Marche, Piemonte, Sardegna, Toscana, Trentino Alto Adige, Umbria, Val d'Aosta and Veneto.

The reference system is UTM33/ED50 for the regions of Basilicata, Calabria, Campania, Molise, Puglia and Sicilia.

The file format for each tile is GeoTIFF with relative tfw, in a three separate files: one for each band of Blue, Green and Red, delivered on CD.

*Border of regional tile*



*Regional Tile*

