

GLIDE number: EQ-2012-000090-ITA Activation ID: EMRS004 Product N.: 05SanFelice, v2

Mirandola, Emilia Romagna, ITALY Earthquake - 29/05/2012 Grading Map - 01 Detail



Cartographic Information

Full color ISO A1, medium resolution (200 dpi)

Points of Interest Transportation

iiii Institutional

Educational

Recreational

Religious

Cemetery

Consequences within the AOI

9021 Inhabitants

Map Coordinate System: WGS 1984 UTM Zone 32N

Graticule: WGS 84 geographical coordinates

Crisis Information

Completely Destroyed (EMS 5)

Damaged (EMS 4, 3, 2)

Secondary Road

	population						
	Destroyed assets	1 Building					
:	Damaged assets						
			Destroyed	Damaged		Destroyed	Damaged
		Residential	1	15	Educational	0	0
		Industrial	0	9	Medical	0	0
		Commercial	0	0	Recreational	0	0
		Institutional	0	O	Religious	0	0
		Multi-Functional	0	0	Transportation	0	0
		Other	0	0	Military	0	0

Map Information

An earthquake with a magnitude 5.8 killed at least 16 people in northern Italy on 29/05/2012, damaging buildings and leaving 14,000 people homeless in the Emilia Romagna region north of Bologna, one of Italy most agriculturally and industrially productive areas. The epicentre of the earthquake, which struck at depth of 9.6 km (6 miles), was less than 30 km (19 miles) from Modena, not far from where the magnitude 6 earthquake struck on 20th May (Source: The core users of the map are Civil Protection authorities involved in operations in the field. The aim of the map production is to support the emergency response activities.

Background imagery: WorldView-02 © Digitalglobe (0% cloudy, 0.5 m resolution, acquired on LandScan ©UT BATTELLE, LLC. 2010 (approx. 1km resolution).

All Data sources are complete and with no gaps.

Dissemination/Publication

No restrictions on the publication of the mapping apply. Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapefile and KML formats).

The products elaborated for this rapid mapping has been realized to the best of our ability, within a very short time frame during a crisis, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original data sources. The products are compliant with GIO-EMS RUSH Product Portfolio specifications.

Map production

The present map shows a delineation of the affected buildings in the city of Mirandola, ITALY, based on visual interpretation of post-event satellite imagery acquired on 30/05/2012 (WorldView-02, spatial resolution 0.5 m). Grading classes are based on EMS-98 damage grades, specifically: Completely Destroyed (EMS-98 Grade 5), Damaged (EMS-98 Grade 2-

Post-event satellite images have been orthorectified using RPC model and SRTM elevation data. The estimated geometric accuracy of this product is 5m CE90 or better, from native positional accuracy of the background orthoimage. The estimated thematic accuracy of the updating is 60% or better, as it is based on visual

interpretation of recognizable items on very high resolution satellite imagery. The overall estimated thematic accuracy is in the range 60-85% due to the use of two different post event Map produced on 21/06/2012 by SIRS under contract 257219 with the European Commission. All products are © of the European Commission.

Name of the release inspector (quality control): GAF AG (ODO).

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CivilProtection

 WorldView-02 Satellite imagery ²⁷ 29-05-2012





