



GLIDE number: N/A Activation ID: EMSR-004  
Product N.: 02Bondeno\_v1

# Bondeno, Emilia Romagna, ITALY

## Earthquake

### Reference Map - Detail

Production date: 21/05/2012



#### Cartographic Information

1:7000 Full color ISO A1, medium resolution (200 dpi)



Map Coordinate System: WGS 1984 UTM Zone 32N  
Graticule: WGS 84 geographical coordinates

#### Legend

- |  |  |
|--|--|
| <span style="border: 1px solid red; display: inline-block; width: 10px; height: 10px;"></span> Area of interest                        | <b>Transportation</b>  |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: white; border: 1px solid black;"></span> Building     | <span style="border-bottom: 2px solid yellow; width: 20px; display: inline-block;"></span> Primary Road                                      |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue;"></span> Religious                         | <span style="border-bottom: 1px solid gray; width: 20px; display: inline-block;"></span> Secondary Road                                      |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: lightpurple;"></span> Commercial                      | <span style="border-bottom: 1px dashed gray; width: 20px; display: inline-block;"></span> Local/Other Road                                   |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue;"></span> Educational                       | <span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Railway  |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: gray;"></span> Industrial                             | <b>Points of interest</b>  |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: orange;"></span> Institutional                        | <span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black;"></span> Institutional       |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue;"></span> Medical                           | <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid black;"></span> Educational    |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: yellow;"></span> Other                                | <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid black;"></span> Medical        |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: green;"></span> Recreational                          | <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid black;"></span> Religious      |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: pink;"></span> Residential                            | <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid black;"></span> Transportation |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: gray;"></span> Transportation                         | <span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid black;"></span> Other          |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: lightgreen; border: 1px solid black;"></span> Unknown |  |

#### Map Information

A strong earthquake has rocked large parts of northern Italy, causing at least seven deaths and seriously damaging historic buildings such as churches, bell towers and a medieval castle. The 6.0-magnitude quake occurred just after 4:04 a.m. on 20/05/2012, about 35km (22 miles) north-northwest of Bologna (4 kilometers outside Camposano), at a relatively shallow depth of 10 km. A series of strong aftershocks hit the area, the strongest measuring 5.1-magnitude (Source: BBC).  
The core users of the map are Civil Protection authorities involved in in-field operations. The scope of the map production is support the emergency response activities.

#### Data Sources

Background imagery courtesy of AGEA  
Base vector layers based on Openstreetmap and Wikimapia refined by ITHACA.  
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 (shapfile and KML formats).

#### Framework

The products elaborated in the framework of current mapping in rush mode activation are 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

Present map shows basic topographic features such as transportation and settlements in the area of Bondeno, ITALY. These basic topographic features derive from public datasets, refined by mean of visual interpretation of pre-event AGEA 2011 aerial images (0.5 m resolution).  
The estimated geometric accuracy of this product is 5m CE90 or better, from native positional accuracy of the background orthomage.  
The estimated thematic accuracy of this product is 80% or better, as it is based on visual interpretation of recognizable items on very high resolution optical imagery.  
Map produced on 21/05/2012 by ITHACA under contract 257219 with the European Commission. All products are © of the European Commission.  
Name of the release inspector (quality control): GAF AG (ODD).  
E-mail: rush@ems-gmes.eu

Earthquake

- Civil Protection
- Response
- Reference Map - Detail
- Planning
- AGEA aerial imagery 2011
- 21-05-2012