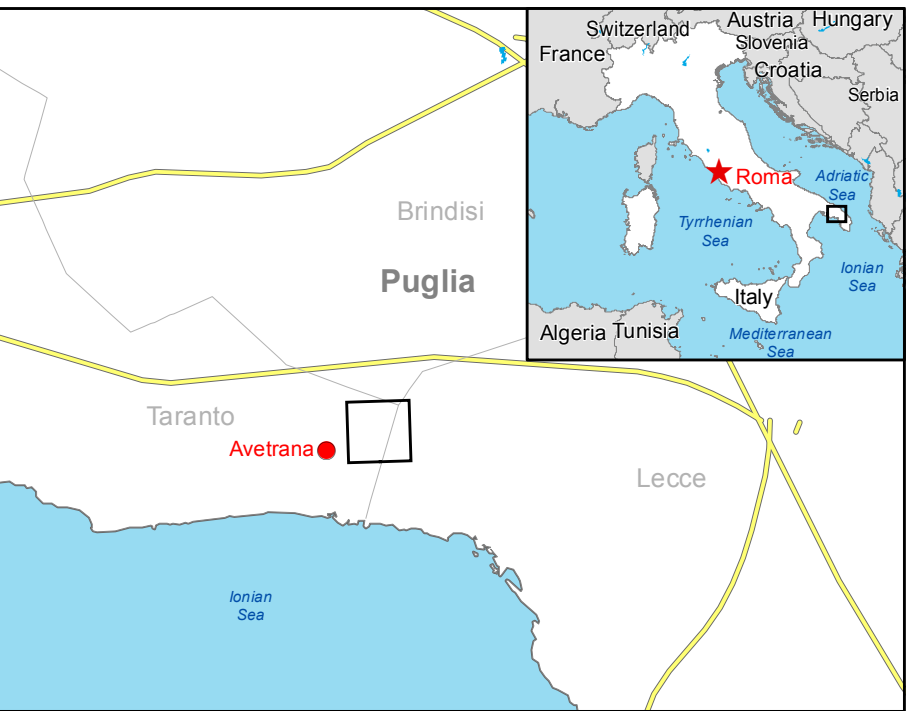


Avetrana - ITALY

Phytosanitary emergency - 10/04/2015

Delineation Map



Cartographic Information

1:10000 Full color ISO A1, medium resolution (200 dpi)

0 0,25 0,5 1 km

Grid: WGS 1984 UTM Zone 33N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

Crisis Information

- Olive Tree, Eradicated
- Fruit Trees, Pruned, Tilled
- Olive Trees, Pruned
- Olive Trees, Pruned, Tilled

Administrative boundaries

- Province
- Municipality

Settlement

- Populated Place

Hydrology

- Ditch

Transportation

- Secondary Road
- Local Road

General Information

- Area of Interest
- Sensor Footprint

Consequences within the AOI on 11/04/2015				
Crop Land	Olive Trees Pruned	Affected	Total in AOI	
	Olive Trees Pruned, Tilled	ha	48,1	1804
	Fruit Trees Pruned, Tilled	ha	133,3	
	Fruit Trees Pruned, Tilled	ha	4,5	N/A
	Olive Trees Eradicated	No.	231	

Map Information

The Apulia region, in Southern Italy, is facing a phytosanitary emergency, caused by the *Xylella fastidiosa* (bacterium included on the EPPO A1 List since 1981). In the territory of Salento peninsula, quick decline symptoms were observed in olive trees (*Olea europaea*). Due to the progressive spread of the bacterium and the potential impact on other crops and regions, the emergency reached proportions with heavy economic, environmental and social consequences.

The emergency plan foresees the eradication of all the plants potentially affected by the infection, in order to create a phytosanitary barrier to stop its expansion. The area of interest for this activity is 40 km long and 5 km wide. The core users of the map are Civil Protection authorities involved in in-field operations. The scope of the map production is planning and support to logistics.

Relevant date and time records (UTC)			
Event	10/04/2015 09:00	Last crisis status	11/04/2015 10:02
Activation	24/04/2015 19:00	Map production	20/05/2015

Data Sources

WorldView-2 © DigitalGlobe (acquired on 11/04/2015 10:02 UTC, GSD 0.5 m, 0% cloud coverage) provided under ESA GSC-DA-DWH License.
Aerial orthoimages © e-GEOS (acquired in 2010, GSD 0.5 m).
Base vector layers based on Geoportale Nazionale © 2011 Ministero dell'Ambiente - Geoportale Nazionale, refined by e-GEOS. Source information is included in vector data.
Elevation data: EU-DEM (25m posting). Height in meters above mean sea level.
All Data sources are complete and with no gaps.
Inset maps based on: Administrative boundaries (JRC, 2013, GISCO 2010, © EuroGeographics), Hydrology, Transportation (Natural Earth, 2012, CCM River DB © EU-JRC 2007), Settlements (Geonames, 2013).

Dissemination/Publication

Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapefile and KML formats).
Map products available in the Copernicus EMS Portal at the following URL:
<http://emergency.copernicus.eu/mapping/list-of-components/EMSR124>
All products are © of the European Union.

Disclaimer

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 Copernicus EMS Rapid Mapping Product Portfolio specifications.

Map Production

The present map shows the current situation in the area of Avetrana (Apulia - Italy). The basic topographic features such as transportation network, hydrology, toponyms and administrative boundaries in the area of Avetrana are derived from public datasets, refined by means of visual interpretation of pre-event aerial orthoimages.
Thematic layers, assessing the delineation of the event, have been derived from difference between WorldView-2 (where available) post-event images and pre-event aerial orthoimages.
All satellite images have been radiometrically enhanced and orthorectified with RPC approach using EU-DEM elevation data.
The estimated geometric accuracy of this product is 5 m CE90 or better, from native positional accuracy of the background satellite image.
The estimated thematic accuracy of this product is 85 or better, as it is based on visual interpretation of recognizable items on very high resolution optical imagery. Only the area enclosed by the Area of Interest has been analyzed.

Contact

Map produced by e-GEOS under contract 259736 with the European Union.
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