



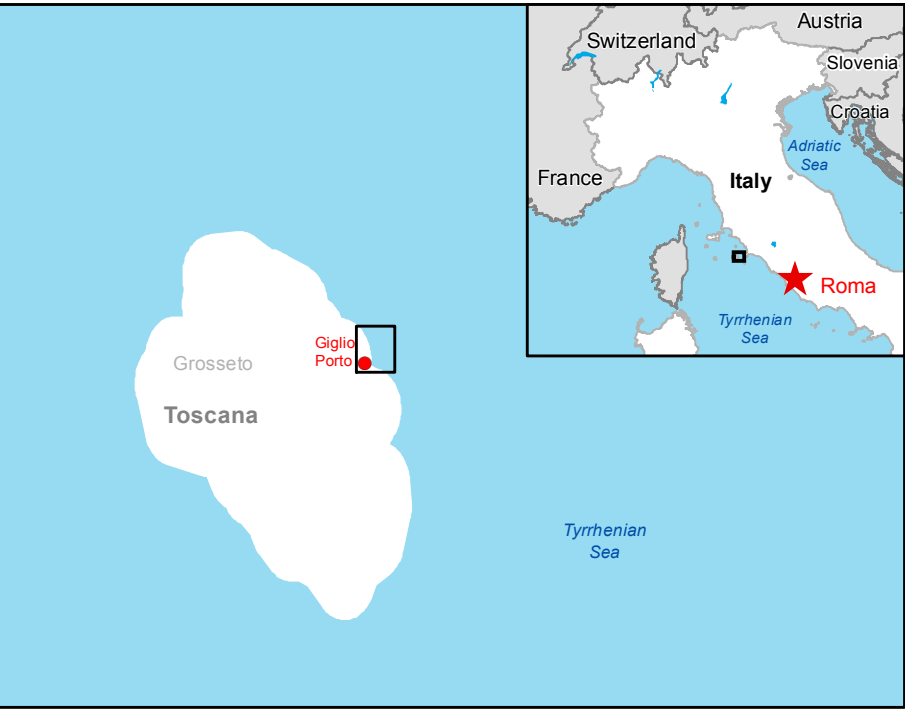
GLIDE number: N/A Activation ID: EMSR-093
Product N.: 01GIGLIOPORTO, v1

Giglio Porto - ITALY

Oil Spill - 16/07/2014

Delineation Map - Detail Monit 03

Production date: 20/07/2014



Cartographic Information

1:2000 Full color ISO A1, medium resolution (200 dpi)

0 25 50 100 Meters

Grid: WGS 1984 UTM Zone 32N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

- Crisis Information**
 - Costa Concordia (19/07/2014 05:19 UTC)
 - Concordia orientation (19/07/2014 05:19 UTC)
- General Information**
 - Area of Interest
- Transportation**
 - Secondary Road
 - Local Road
 - Trail
 - Harbour
- Settlements**
 - Residential
 - Religious
- Point of Interest**
 - Religious
 - Transportation

Consequences within the detail AOI on 16/07/2014				
Affected area		Affected	Total in AOI	
	ha	0	0	
Estimated population	Inhabitants	0	410	
Settlements	Residential	ha	0	148
	Religious	ha	0	1
Transportation	Secondary roads	km	0	0.8
	Local roads	km	0	3.1

Map Information

The Costa Concordia ground into the rocky shore of the Italian Giglio island on Jan. 13, 2012. The activities to remove the relict from the Giglio island are ready to start and this represents a tricky phase where several aspects have to be taken into account in order to avoid issues that can impact on several domains. It is very important, during these activities, to obtain information, also from earth observation data, about the potential oil spill that could occur and concerning the situation in the harbour area.

Data Sources

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).
Pleiades © CNES 2013, Distribution Astrium Services/SPOT Image S.A. (acquired on 16/07/2014 03:48 UTC, GSD 0.5 m, approx. 0% cloud coverage, 37° off-nadir angle). All rights reserved.
TerraSAR-X © Infoterra GmbH (acquired on 19/07/14 at 05:19 UTC GSD 1.5m) provided under ESA GSC-DA DWH License.
Base vector layers based on OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames (approx. 1:10,000, extracted on 01/01/2001), refined by e-GEOS. Source information is included in vector data.
Population data: Landscan 2010 © UT BATTELLE, LLC.
All Data sources are complete and with no gaps.

Dissemination/Publication

Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapefile 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

The present map shows basic topographic features such as transportation and building footprint in the area of Giglio Porto, Giglio Island, Toscana (ITALY). These basic topographic features are derived from public datasets, refined by means of visual interpretation of GeoEye-1 pre-event image, Pleiades post-event image has been radiometrically enhanced and coregistered respect to GeoEye-1 pre-event image. GeoEye-1 pre-event image has been radiometrically enhanced and orthorectified with RPC approach (using SRTM90 elevation data).
The estimated geometric accuracy of this product is 5m CE90 or better, from native positional accuracy of the background satellite image.
The map reports a symbol (red shipwreck) that shows the actual location of the Costa Concordia and an azure line that highlights the orientation (NW - SE) of the Costa Concordia. These elements were extracted from a TerraSAR-X image acquired on 19/07/14 at 05:19 UTC. In multitemporal analysis, made on the two images, a shift of the relict was detected. 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 included in the Area of Interest has been analyzed.
Map produced on 20/07/2014 by e-GEOS under contract 257219 with the European Commission. All products are © of the European Commission.
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Map products available at <http://emergency.copernicus.eu/mapping/list-of-components/EMSR093>

