GLIDE number: N/A

Activation ID: EMSN-001 Product N.: 00Chios, v4

# Chios 1-5

**Fire** Grading Map - Overview



#### Cartographic Information

1:25.000

Full color ISO A1, high resolution (300 dpi)

Map Coordinate System: WGS 1984 UTM Zone 35N Graticule: UTM coordinates

### Legend

**Transportation** ——Primary Road Secondary Road

# **Grading of Fire Severity**

——Local Road

Detailed AOI

Completely burnt areas Moderately burnt areas

Consequences within the whole AOI			
Corine Land Cover - Level 3	Completely burnt areas (ha)	Moderately burnt areas (ha)	TOTAL (ha)
Bare rocks	66	0	66
Complex cultivation patterns	527	473	1001
Coniferous forest	3493	1988	5481
Construction sites	1	2	3
Industrial or commercial units	2	9	11
Land occupied by agriculture with natural vegetation	169	50	219
Mineral extraction sites	0	0	0
Moors and heathland	0	1	1
Non-irrigated arable land	8	37	45
Olive groves	119	226	345
Pistacia lentiscus	114	146	261
Sclerophyllous vegetation	3752	126	3878
Sparsely vegetated areas	483	1	484
Transitional woodland-scrub	1802	214	2016
Afforded Arone (total)	10536	2272	12000

#### Map Information

Starting on August 18th 2012 a wild-fire has burnt large areas of high forest and shrub land on the island of Chios. In the southern part of the Chios island areas where the unique species Pistacia lentiscus var. Chia is cultivated were burnt, causing economical damages and loss of historical land use considering that the species has been cultivated on this island for centuries.

This a grading map of the burnt area of south-west of Chios island.

The core users of the map are Civil Protection authorities.

The main goal of the map produced is to help the Greek Emergency Planning and Response Service, Ministry of Citizen Protection/General Secretariat for Civil Protection in the determination of the impact of the forest fire occurred recently in the island.

#### **Data Sources**

Quickbird © Digitalglobe (acquired on 22/08/2012 and 25/08/2012, GSD 0,6 m., 0% cloud coverage) provided under ESA GSC-DA DWH License. Base vector layers based on © Openstreetmap and © Geonames, refined by e-GEOS. EURODEM © EC (gridsize 25 m).

## Dissemination/Publication

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

#### Framework

The products elaborated in the framework of current mapping in non rush mode activation are realized to the best of our ability, 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 NON RUSH Product Portfolio specifications.

#### Map production

Present map shows fire damaged areas and transportation in the area of Chios (Greece). The grading of the event has been created by visual interpretation of post event mosaic image (QuickBird acquired on 22/08/2012 and 25/08/2012, 0.6 m spatial resolution). Land cover classification has been used to perform a spatial analysis and define the info reported in the table.

The satellite images have been geometrically corrected using the EURODEM (gridsize 25 m) and the sensor model and then mosaicked; vector data have been adjusted afterwards according to this geometric reference. The estimated geometric accuracy of this product is about 14 m RMSE, from native positional accuracy of the background satellite image (based on Quickbird off nadir angle:

The estimated thematic accuracy of this product is 85% or better, as in the area of interest no ambiguous features were detected. Map produced on 27/12/2012 by e-GEOS.
All products are © of the European Commission.
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L Civil Protection



Quickbird image <sup>1</sup> 18-08-2012



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