



GLIDE number: N/A
Activation ID: EMSR-081
Product N.: 01Gelderland, v2

Gelderland - NETHERLANDS

Fire - 20/04/2014

Delineation Map - Overview

Production date: 06/05/2014



Cartographic Information

1:20000 Full color ISO A1, medium resolution (200 dpi)



Grid: WGS 1984 UTM Zone 31N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

- Crisis Information**
 - Burnt Area (05/05/2014)
- General Information**
 - Area of Interest
- Administrative boundaries**
 - Municipality
- Settlements**
 - Populated Place
- Transportation**
 - Aerodrome
 - Primary Road
 - Secondary Road
 - Local Road

Consequences within the overview AOI on 05/05/2014				
		Affected	Total in AOI	
Burnt area	ha	322		
	Primary roads	km	0	30
	Secondary roads	km	0	24
	Local	km	0,4	7,6
Transportation	Aerodrome	No.	0	1
	Forest	ha	7,9	5475
	Forest clearing	ha	0	1,9
	Bare Ground	ha	0	54
Vegetation	Cropland	ha	0	1230
	Grassland	ha	0,1	581
	Scrub	ha	314	2726
	Wetland	ha	0	5

Map Information

On 20 April 2014 a wildfire broke out in the Hoge Veluwe National Park near the city of Arnhem in the Netherlands. This is a delineation map showing the situation after the event. The core user is the National Operations Centre of the Netherlands. The scope of the map is for post-event assessment of the burnt area as support for the recovery phase.

Data Sources

Inset maps based on: Administrative boundaries (JRC 2013, GISC0 2010, © EuroGeographics), Transportation (Natural Earth, 2012, CCM River DB © EU-JRC 2007), Settlements (Geonames, 2013).
Pleades © CNES 2014, Distribution Astrium Services/SPOT Image S.A. (acquired on 05/05/2014 10:38, GSD 0.5 m, 25% cloud coverage). All rights reserved. Provided under ESA GSC-DA DWH License. Landsat © USGS (acquired in 2000 - 2010, GSD 15m, 0% cloud coverage).
Base vector layers based on OpenStreetMap © OpenStreetMap contributors, UrbanAtlas © EEA 2011, Wikimapia.org, GeoNames (approx. 1:10'000), extracted on 01/05/2014, refined by SIRS. Source information is included in vector data.
Elevation data: EU-DEM (25m posting). Height in meters above mean sea level.
Population data: LandScan 2010 © UT BATELLE, LLC.
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).

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 the current situation on the burnt delineation in the area of Gelderland (Netherlands). The basic topographic features are derived from public datasets refined by means of visual interpretation of pre-event WorldView-2 © DigitalGlobe (acquired on 19/04/2014 11:07, GSD 0.5 m, 0% cloud coverage).
Thematic layer, assessing the delineation of the event, has been derived from post-event Pleades Image (acquired on 05/05/2014 10:38 UTC, GSD 0.5 m, 25% cloud coverage).
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 the analysis technique has been validated by several in field validation campaigns. Shadowed areas are zones of lower interpretation accuracy due to the poorer image.
Only the area enclosed by the Area of Interest has been analyzed.
Map produced on 06/05/2014 by SIRS under contract 257219 with the European Commission. All products are © of the European Commission.
Name of the release inspector (quality control): e-GEOS (ODO).
E-mail: rush@ems-gmes.eu
Map products available at <http://emergency.copernicus.eu/mapping/list-of-components/EMSR081>

