



Gelderland - NETHERLANDS

Fire - 20/04/2014

Reference Map - Overview

Production date: 01/05/2014



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

General Information	Transportation	Land Use / Land Cover
Area of Interest	Aerodrome	Bare Ground
Sensor Footprint	Primary Road	Cropland
Administrative boundaries	Secondary Road	Forest Clearing
Local Road	Aerodrome	Grassland
Municipality	Local Road	Scrub
Populated Place	Aerodrome	Wetland
		Woodland

Exposure within the overview AOI			
Transportation	Primary roads	km	30
	Secondary roads	km	24
	Local	km	7.6
	Aerodrome	No.	1
Vegetation	Forest	ha	5475
	Forest clearing	ha	1.9
	Bare Ground	ha	54
	Cropland	ha	1230
	Grassland	ha	581
	Scrub	ha	17
	Wetland	ha	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 reference map showing the situation before 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).
WorldView-2 © DigitalGlobe (acquired on 19/04/2014 11:07, GSD 0.5 m, 0% cloud coverage) 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 01/01/2001), 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: Landsat 2010 © UT BATTELLE, LLC.

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 basic topographic features such as transportation and land-use in the area of Gelderland (Netherlands). These 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).
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. Shadowed areas are zones of lower interpretation accuracy due to the poorer image radiometry.
Only the area enclosed by the Area of Interest has been analyzed.
Map produced on 01/05/2014 by SIRS under contract 257219 with the European Commission. All products are © of the European Commission.
Name of the release inspector (quality control): GAF AG (ODO).
E-mail: rush@ems-gmes.eu
Map products available at <http://emergency.copernicus.eu/mapping/list-of-components/EMSR081>

