Framework Partnership Agreement
for Copernicus User Uptake

Exemplos de ativação do CEMS no contexto dos incêndios florestais

Giuseppe Cornaglia, ANEPC

https://emergency.copernicus.eu/

Implemented by the European Commission as part of the Copernicus Programme

Copernicus Emergency Management Service

EMS Data Access

The EMS services provide various ways to access or download the data. Just click on the links below.

Mapping

List of **EMS Rapid Mapping** Activations

List of **Risk & Recovery Mapping** Activations

Web Map Viewer

Flood

EFAS Data Access

GloFAS Data Access

Wildfires

EFFIS Data Request Form

EFFIS Data Access

Drought

EDO/GDO Data Access

https://emergency.copernicus.eu/

COPERNICUS

Emergency Management Service - Mapping

Copernicus EMS » Mapping

Home | What is Copernicus? | What is CEMS - Mapping? | Link to Early Warning Systems | News

LATEST NEWS · 2023-11-30 | [EMSR710] Flood in Romania

EMS - MAPPING

- Who can use the service
- How to use the service
- Portfolio: Rapid Mapping
- Portfolio: Risk and Recovery
- Quality control
- User Guide

RAPID MAPPING

- List of Activations
- Online Manual

RISK AND RECOVERY

- List of Activations
- Map of Activations
- GeoRSS Feed
- Online Manual

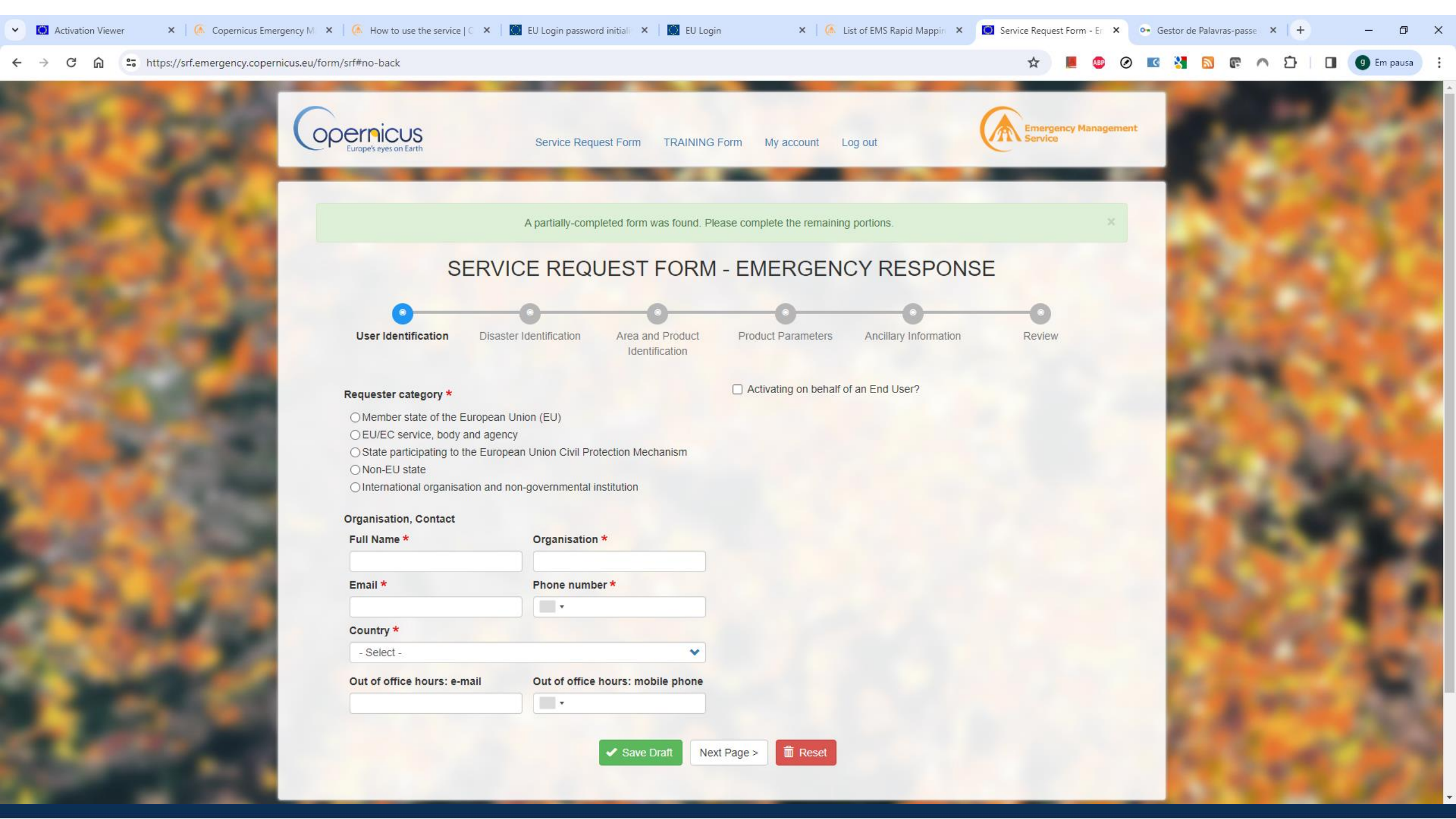
OTHER

- Map of Activations of Other Organizations
- Meetings, Workshops

Copernicus Emergency Management Service - Mapping

A service in support of European emergency response

Map above displays only latest Copernicus EMS - Mapping Activations. To see a Map of All Activations, go to section Map of Activations in Rapid Mapping or in Risk and Recovery Mapping sub-menus respectively.


Activation Viewer
Copernicus Emergency M
How to use the service | C
EU Login password initiali
EU Login
List of EMS Rapid Mappin
Service Request Form - Er
Gestor de Palavras-passe
https://srf.emergency.copernicus.eu/form/srf#no-back
Em pausa
Copernicus
Europe's eyes on Earth
Service Request Form
TRAINING Form
My account
Log out
Emergency Management Service
A partially-completed form was found. Please complete the remaining portions.
SERVICE REQUEST FORM - EMERGENCY RESPONSE
User Identification
Disaster Identification
Area and Product Identification
Product Parameters
Ancillary Information
Review
Activating on behalf of an End User?
Requester category *
Member state of the European Union (EU)
EU/EC service, body and agency
State participating to the European Union Civil Protection Mechanism
Non-EU state
International organisation and non-governmental institution
Organisation, Contact
Full Name *
Organisation *
Email *
Phone number *
Country *
- Select -
Out of office hours: e-mail
Out of office hours: mobile phone
Save Draft
Next Page >
Reset

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List of EMS Rapid Mapping Activations

Title

Contains any word

Act. Status: – Any –

Event type: Earthquake, Flood, Wildfire, Storm, Mass movement

Act. Date (UTC)

E.g. 2023-04 for all activations in April 2023

Affected Countries: Paraguay, Peru, Philippines, Poland, Portugal

Select multiple countries with Ctrl/Cmd

Apply | Reset

20 ativações para fogos rurais num total de 25

Act. Code	Title	Act. Date	Type	Country/Terr.
EMSR681	Wildfire in Portugal	2023-08-05	Wildfire	Portugal
EMSR628	Forest fire in Samarda - Vila Real, Portugal	2022-08-22	Wildfire	Portugal
EMSR618	Wildfire in Covilha, Portugal	2022-08-09	Wildfire	Portugal
EMSR614	Wild Fire in Vila Real, Portugal	2022-07-28	Wildfire	Portugal
EMSR609	Wildfire in Portugal	2022-07-26	Wildfire	Portugal
EMSR596	Fire in Murca, Vila Real, Portugal	2022-07-19	Wildfire	Portugal
EMSR589	Wildfire in Ourem, Portugal	2022-07-08	Wildfire	Portugal
EMSR539	Fire in Algarve, Portugal	2021-08-16	Wildfire	Portugal
EMSR463	Forest fire in Castelo Branco, Portugal	2020-09-14	Wildfire	Portugal
EMSR462	Forest Fire in Viseu, Portugal	2020-09-08	Wildfire	Portugal
EMSR448	Forest fire in Castelo Branco, Portugal	2020-07-26	Wildfire	Portugal
EMSR443	Fire in Algarve, Portugal	2020-06-19	Wildfire	Portugal
EMSR417	Flood in Portugal	2019-12-23	Flood	Portugal
EMSR395	Tropical Cyclone in Flores Island, Portugal	2019-10-07	Storm	Portugal
EMSR386	Forest fire in Aveiro District, Portugal	2019-09-07	Wildfire	Portugal
EMSR372	Fire in Castelo Branco, Portugal	2019-07-21	Wildfire	Portugal
EMSR303	Forest Fire in Faro, Portugal	2018-08-05	Wildfire	Portugal
EMSR250	Forest fire Portugal	2017-10-16	Wildfire	Portugal
EMSR207	Forest fires in Leiria District, Portugal	2017-06-18	Wildfire	Portugal

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List of EMS Risk and Recovery Mapping Activations

Title: Contains

Act. Status: - Any -

Event Type: Drought, Epidemic, Extreme temperature, Humanitarian, Infestation, Mass movement

Event Date (UTC)
Start date E.g., 2023-11-24
End date E.g., 2023-11-24

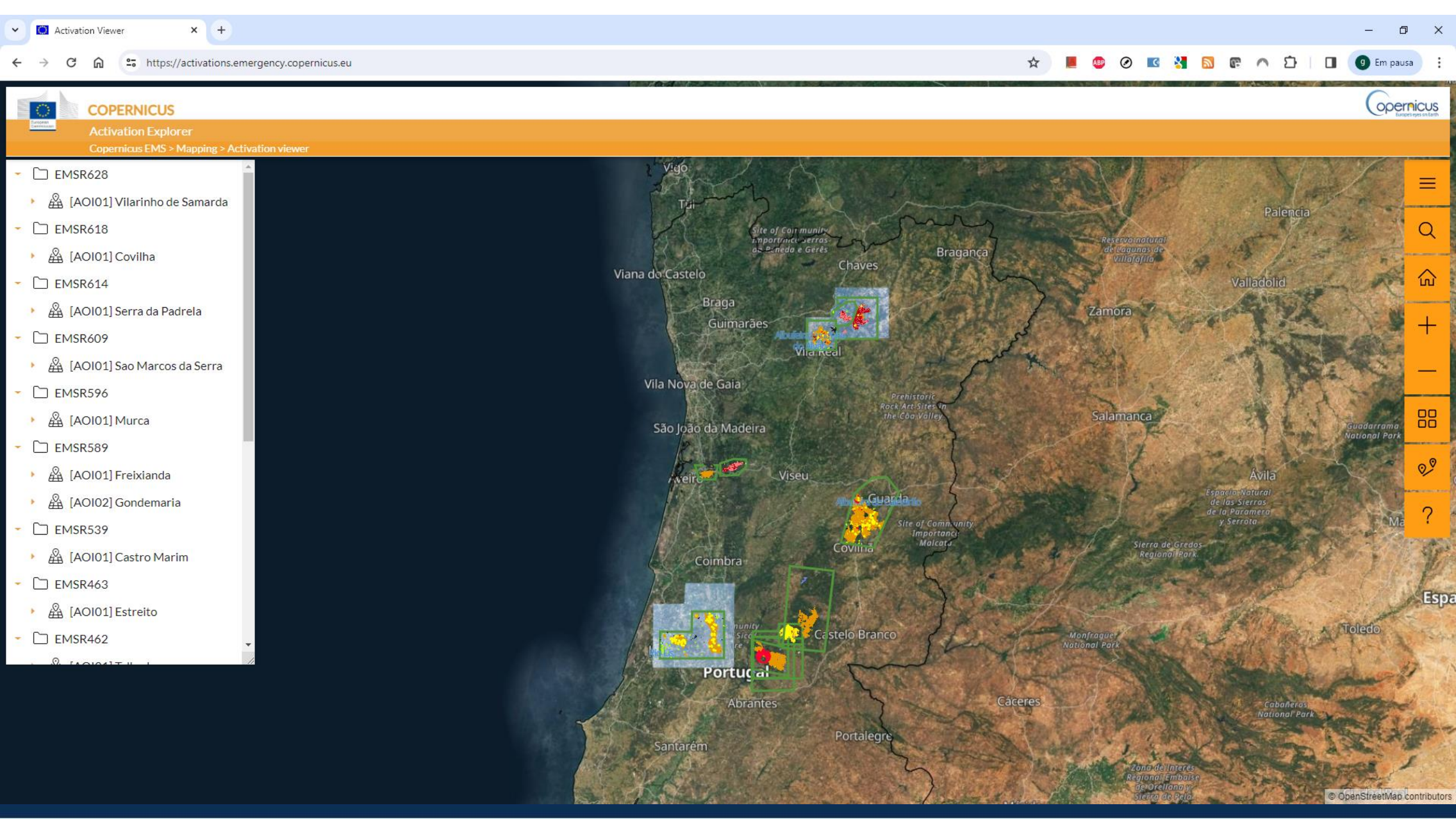
Affected Countries: Nicaragua, Nigeria, North Macedonia, Peru, Philippines, Poland, Portugal

Select multiple countries with Ctrl/Cmd

Apply Reset

Act. Code	Title	Country/Terr.	Feed
EMSN150	Volcanic risk assessment in Terceira Island, Azores	Portugal	
EMSN149	Monitoring areas damaged by forest fires in Serra da Estrela, Portugal	Portugal	
EMSN129	Volcanic risk assessment in Sao Jorge, Azores	Portugal	
EMSN089	Mass movement in Madeira, Portugal	Portugal	
EMSN034	Coastal flood risk analysis for population and assets, Portugal	Portugal	
EMSN032	Forest fire damage assessment, Portugal	Portugal	
EMSN031	Forest fire damage assessment and landslide risk, Madeira Island, Portugal	Portugal	
EMSN020	Multiple natural hazard risk assessment - Planning and Recovery	Portugal	
EMSN018	Multiple natural hazard risk assessment - Planning and Recovery, Azores Islands, Portugal	Portugal	
EMSN017	Forest Fires 2015, Portugal	Portugal	
EMSN010	Forest fire damage assessment – Planning and Recovery Serra de Caramulo, Portugal	Portugal	

Displaying 1 - 11 of 11 items


Activation Viewer
https://activations.emergency.copernicus.eu
Em pausa
COPERNICUS
Activation Explorer
Copernicus EMS > Mapping > Activation viewer
EMSR628
[AOI01] Vilarinho de Samarda
EMSR618
[AOI01] Covilha
EMSR614
[AOI01] Serra da Padrela
EMSR609
[AOI01] Sao Marcos da Serra
EMSR596
[AOI01] Murca
EMSR589
[AOI01] Freixianda
[AOI02] Gondemaria
EMSR539
[AOI01] Castro Marim
EMSR463
[AOI01] Estreito
EMSR462
Vigo
Tui
Viana do Castelo
Braga
Guimarães
Chaves
Bragança
Vila Real
Vila Nova de Gaia
São João da Madeira
Aveiro
Viseu
Guarda
Covilhã
Coimbra
Castelo Branco
Portugal
Abrantes
Santarém
Portalegre
Cáceres
Palencia
Valladolid
Zamora
Salamanca
Ávila
Toledo
Site of Community Importance Serras de Peneda e Gerês
Reserva natural de Lagunas de Villafáfila
Prehistoric Rock Art Sites in the Côa Valley
Site of Community Importance Malcata
Sierra de Gredos Regional Park
Monfragüe National Park
Guadarrama National Park
Cabañeros National Park
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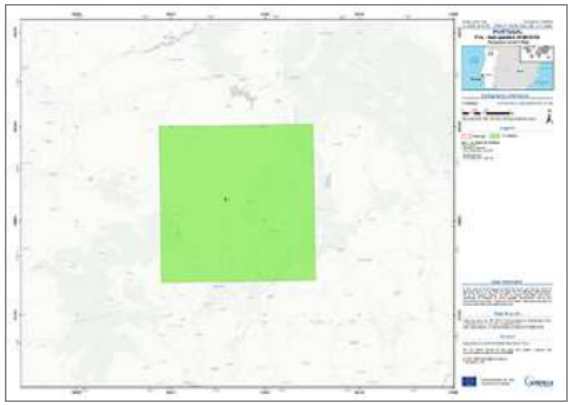
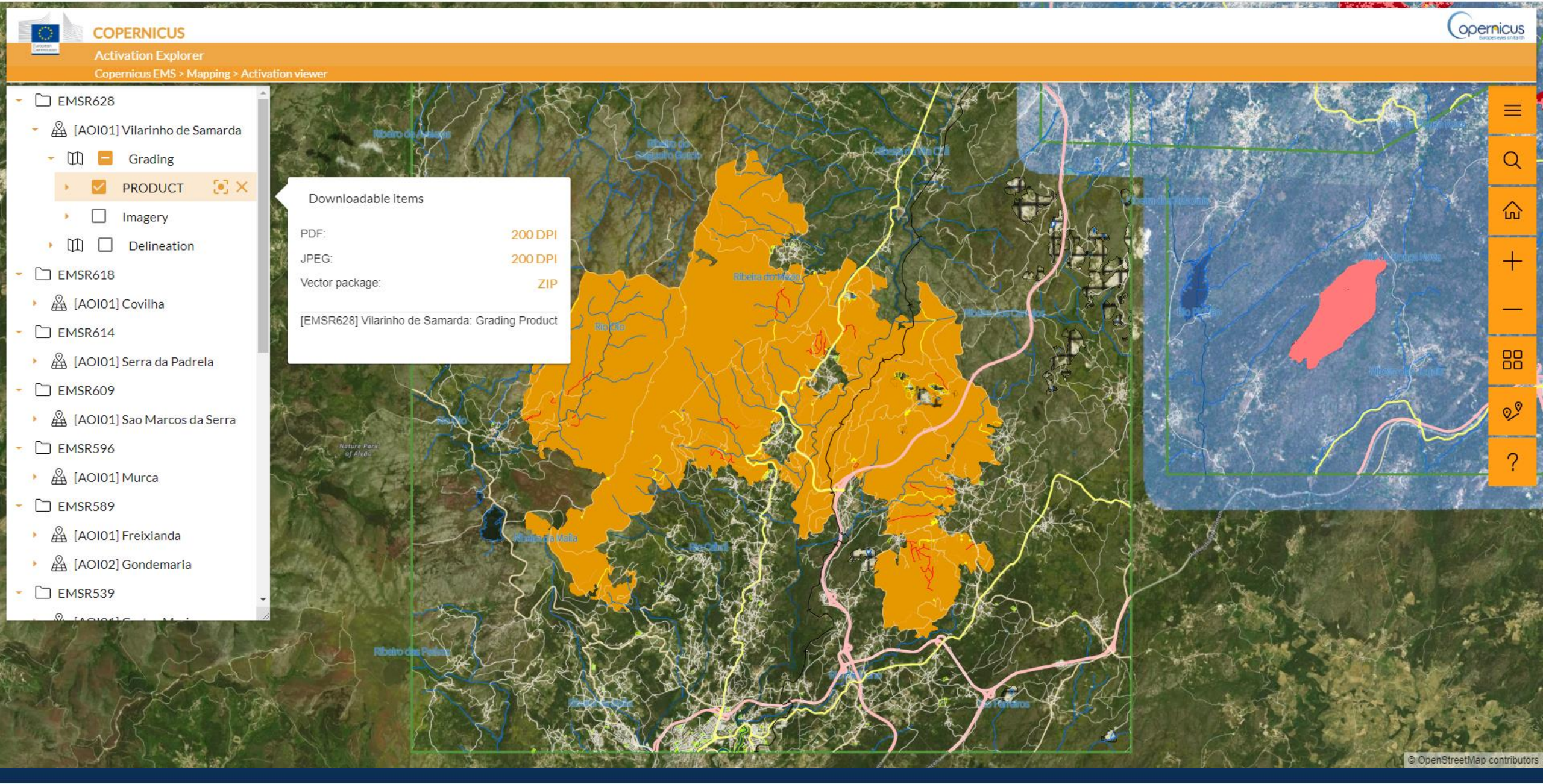
EMSR628: Forest fire in Samardâ - Vila Real, Portugal

Event Time (UTC): 2022-08-21 07:30
Event Time (LOC): 2022-08-21 07:30
Event Type: Wildfire (Forest fire)
Activation Time (UTC): 2022-08-22 23:09
Activation Status: Closed
Affected Countries/Territories:
Portuguese Republic
Service Output: 2 products (4 maps)
Delineation: 1 products (2 maps)
Grading: 1 products (2 maps)
Authorised User:
Portugal|National Command for Relief Operations - National Authority for Civil Protection

Activation Reason:
In the morning of 21 August, a large fire broke out into the forest of Samardâ, district of Vila Real (Portugal). The fire affected 5000 hectares. As of 22 August evening, the fire is almost controlled, with close monitoring of hotspots to avoid possible reactivations due to the forecasted strong winds. Copernicus EMS Rapid Mapping is requested to provide Delineation and Grading products.



EMSR628 - Activation Extent Map
Release: r04 - Version: v1 - Delivered: 2022-08-24 23:27
View as: EMSR628-AEM-JPG - EMSR628-AEM-KMZ - EMSR628-AEM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https://activations.emergency.copernicus.eu
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Activation Explorer
Copernicus EMS > Mapping > Activation viewer
EMSR628
[AOI01] Vilarinho de Samarda
Grading
PRODUCT
Imagery
Delineation
EMSR618
[AOI01] Covilha
EMSR614
[AOI01] Serra da Padrela
EMSR609
[AOI01] Sao Marcos da Serra
EMSR596
[AOI01] Murca
EMSR589
[AOI01] Freixianda
[AOI02] Gondemaria
EMSR539
Downloadable items
PDF: 200 DPI
JPEG: 200 DPI
Vector package: ZIP
[EMSR628] Vilarinho de Samarda: Grading Product
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European Commission

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Emergency Management Service - Mapping

Copernicus Europe's eyes on Earth

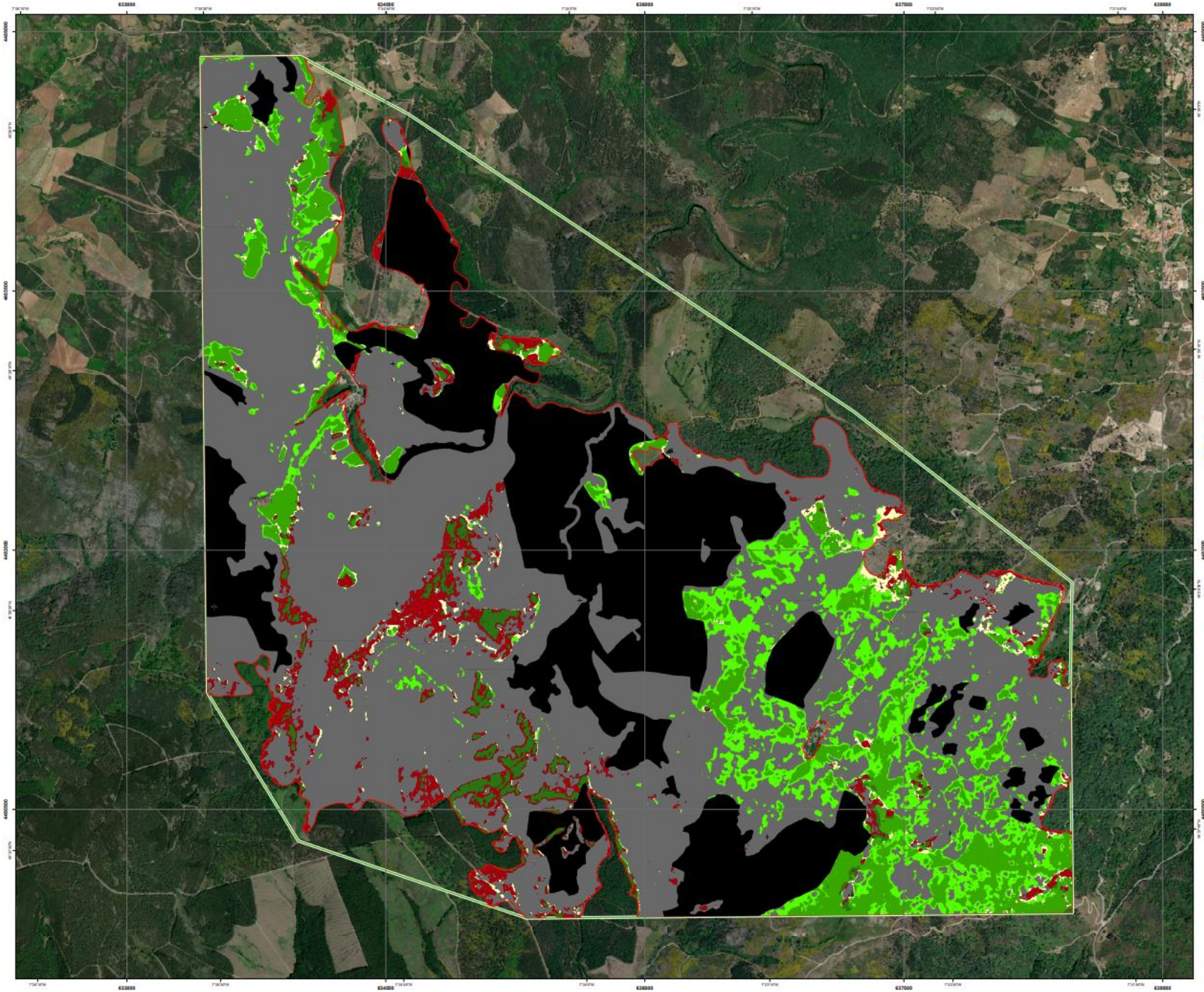
EMSN149: Monitoring areas damaged by forest fires in Serra da Estrela, Portugal

Event Time (UTC): 2022-08-06 00:00
Event Type: Other
Activation Time (UTC): 2023-05-02 00:00
Activation Status: Closed
Affected Countries/Territories:
Portuguese Republic
Area Descriptor: Videmonte located in Serra da Estrela , Portugal
Authorised User:
ANEPC

Show Activation Overview

In August 2022, a wild forest fire affected the Portuguese Serra da Estrela National Park for several days, with strong winds and high temperatures making it difficult for firefighters to control the flames. The Copernicus Emergency Management Service Rapid Mapping (EMSR618) was activated to respond to this event. The fire, the largest in 50 years, resulted in an affected area of about 25,000 hectares, forced the evacuation of several local communities, and caused significant damage to the natural environment, including forests and wildlife habitats. Unfortunately, the devastation did not end there as the wildfires triggered a series of catastrophic floods on 13 September, which further ravaged the region in the following weeks.

Several recovery efforts are being implemented to mitigate the effects of the wildfires in various domains. These



GLIDE number: N/A
Int. Charter call ID: N/A

Activation ID: EMSN149
Product N: SERRA DA ESTRELA, P03, v01

Serra da Estrela (Portugal)

Monitoring areas damaged by forest fires

Assessment of vegetation recovery - Overview map

Cartographic Information

1:10,000

Full color A1, 300 dpi resolution

0 0.25 0.5 1 km

N

Grid: WGS 1984 UTM Zone 29N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

General Information

- Area of Interest
- Fire delineation

Assessment of vegetation recovery

- Affected
- Dead
- Deteriorating
- Eliminated
- Living
- Recovered
- Recovering

Map Information

The aim of this activation was to assess the current situation in the Videmonte (Area of Interest), located in Serra da Estrela, Portugal. Specifically, evaluate the real-time vegetation coverage, as well as the status of vegetation recovery after the fire event occurred in August 2022. Additionally, the land use/land cover and accessibility of the road network were assessed. Finally, the risk of soil erosion, landslides, and soil loss were also examined, considering both the post-fire situation and the potential impact of planned recovery actions.

Map Production

The present map shows the assessment of vegetation recovery considering three moments: pre-event, post-event and current situation in the AOI.

The estimated geometric accuracy (RMSE) is 0.60 m or better, from native positional accuracy of the source satellite images.

This thematic layer has been derived based on semi-automated classification approach using very high resolution optical imagery. The assessed thematic accuracy value is 96.1%, assessed following fire quality assessment methodology described in the Technical Report (https://emergency.copernicus.eu/EMSN149).

Data Sources

Image: SPOT6/7 © Airbus DS (2022/2023), (acquired on 28/05/2022 at 11:00 UTC, the 18/08/2022 at 10:29 UTC, the 04/03/2023 at 10:57 UTC, approx. 0.0%, 1.2%, 0.0% cloud coverage in AoI, 15.82°, 37.23°, 17.74° off-nadir angle, resolution 1.5 m), provided under COPERNICUS by the European Union and ESA, all rights reserved.

Esri Basemap (Background) © Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN and the GIS User Community.

Ancillary Data: Land Use and Land Cover for Mainland Portugal for the year 2018 (COS2018), P1 - Current Detailed Vegetation, P2 - Land use Land Cover update, MAEV-Intra-Annual Vegetation Status Maps.

Index maps: JRC 2013, EuroBoundaryMap 2017 © EuroGeographics, Natural Earth 2012, CCM River DB © EU-JRC2007, GeoNames 2013.

Disclaimer

Products elaborated in the Copernicus EMS Risk and Recovery Mapping 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 sources. No liability concerning the contents or the use thereof is assumed by the producer and by the European Union.

Delivery formats are Layered Geospatial PDF and vector (ESRI GDB, GeoJSON).

Map produced by GMV released by IABG mbH (PM).

For the latest version of this map and related products visit https://emergency.copernicus.eu/EMSN149

jrc-ems-riskrecoverymapping@ec.europa.eu

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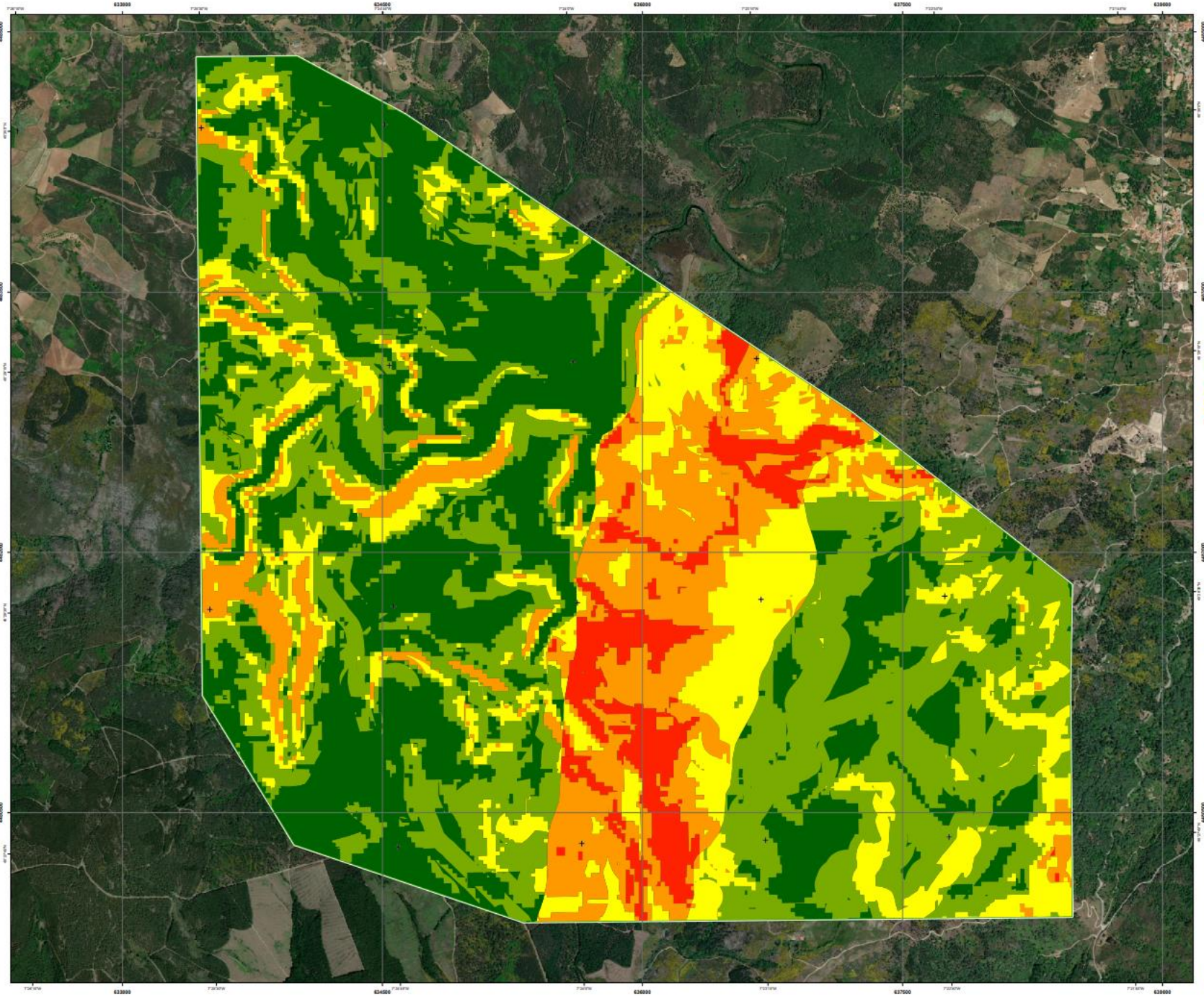

GLIDE number: N/A
Int. Charter call ID: N/A

Activation ID: EMSN149
Product N: SERRA DA ESTRELA, P06, v01

Serra da Estrela (Portugal)

Monitoring areas damaged by forest fires

Landslide risk Scenario2 - Overview map

Cartographic Information

1:10,000

Full color A1, 300 dpi resolution

0 0.25 0.5 1 km

N

Grid: WGS 1984 UTM Zone 29N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

General Information

- Area of Interest

Landslide risk

- Negligible
- Low
- Medium
- High
- Very high

Map Information

The aim of this activation was to assess the current situation in the Videmonte (Area of Interest), located in Serra da Estrela, Portugal. Specifically, evaluate the real-time vegetation coverage, as well as the status of vegetation recovery after the fire event occurred in August 2022. Additionally, the land use/land cover and accessibility of the road network were assessed. Finally, the risk of soil erosion, landslides, and soil loss were also examined, considering both the post-fire situation and the potential impact of planned recovery actions.

Map Production

The present map shows the landslide risk for two distinct scenarios: i) landslide risk on the actual post-fire situation, and ii) landslide risk once the relevant planned mitigation interventions have been deployed. The thematic layer has been derived based on a heuristic model with calibration of the weights of different triggering and susceptibility factors through an AHP process. For the input data a number of variables were used: slope, geology, LULC, soil moisture, transportation network and hydrographic network.

The Landslide risk product follows a validated and accurate model, in which the thematic accuracy is highly correlated with the accuracy of the input datasets.

The geometric accuracy is also related to the accuracy of the several input variables used for the modelling.

Data Sources

Esri Basemap (Background) © Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN and the GIS User Community.

Ancillary DataThe modelled landslide risk has been derived from PG2 - Land Use Land Cover update, Geological map of Portugal (LNEG), DTM provided by user ICNF field data in shapefile and PDF formats containing information related to deployed interventions on AOI, after the 2022 fire event.

Index maps: JRC 2013, EuroBoundaryMap 2017 © EuroGeographics, Natural Earth 2012, CCM River DB © EU-JRC2007, GeoNames 2013.

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https://emergency.copernicus.eu/mapping/system/files/components/EMSN149_01SERRADAESTRELA_P04AARN_00OVERVIEW_v1.pdf

Reiniciar para atualizar

EMSN149_01SERRADAESTRELA_P04AARN_00OVERVIEW_v1.pdf

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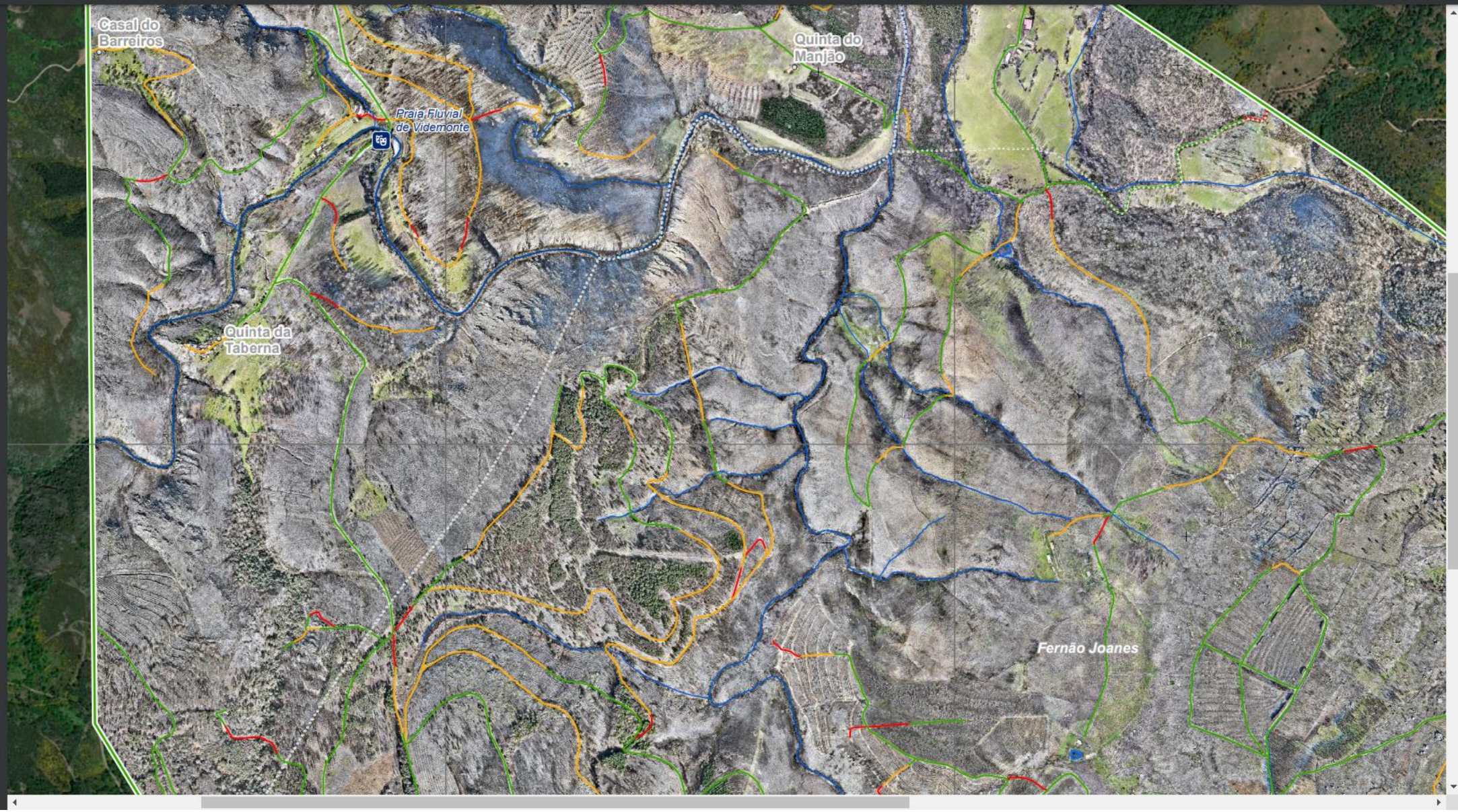


Serra da Estrela
Levantamento drone RGBI 5 cm.

MUITO OBRIGADO

giuseppe.cornaglia@prociv.pt

Framework Partnership Agreement
for Copernicus User Uptake

O projeto FPCUP é financiado pela Comissão Europeia sob o FPA no.: 275/G/GRO/COPE/17/10042