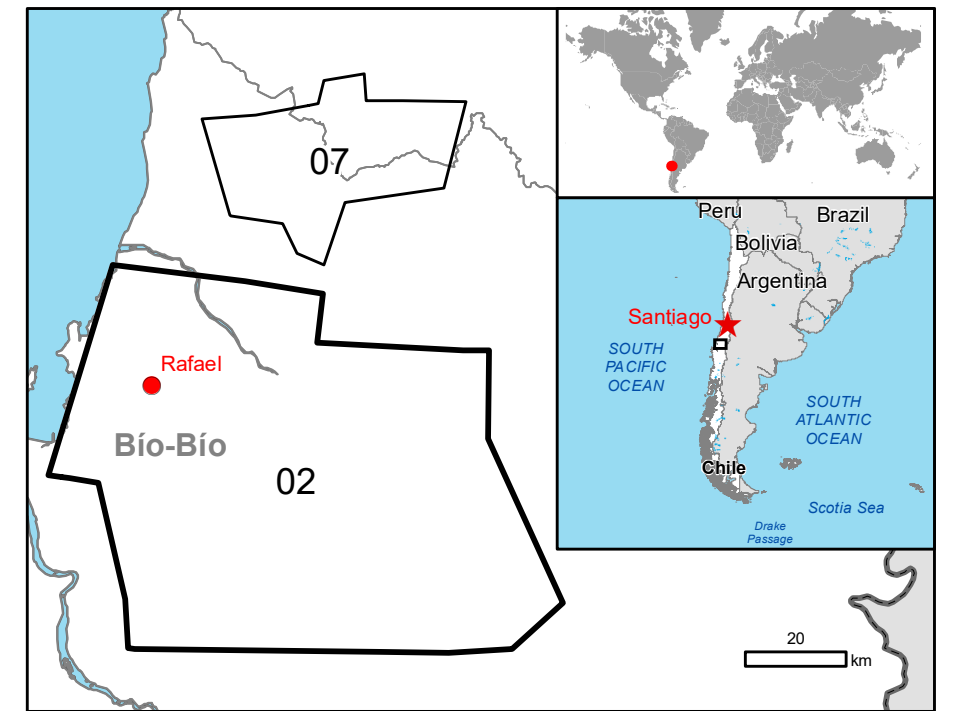


# Rafael - CHILE

## Wildfire - Situation as of 14/02/2023

### Delineation MONIT03 - Overview map 01



## Cartographic Information

1:150000 Full color A1, 200 dpi resolution

0 2 4 8 km

Grid: WGS 1984 UTM Zone 18S map coordinate system  
Tick marks: WGS 84 geographical coordinate system

Legend	
<b>Crisis Information</b>	<b>Placenames</b>
Active Flames	Placename
<b>General Information</b>	<b>Built-Up Area</b>
Burnt Area	Residential
Area of Interest	Image Footprint
Not Analysed	<b>Hydrography</b>
Province	River
Municipality	Stream
Lake	Land Subject to Inundation
Reservoir	Highway
Primary Road	Secondary Road
Long-distance railway	Airfield runway
<b>Facilities</b>	<b>Transportation</b>
Construction for mining or extraction	Settling Basin
Power plant construction	Land Use - Land Cover
Sport and recreation constructions	Features available in the vector package
Dump Site	
Dam	
Other civil engineering works not elsewhere classified	

Consequences within the AOI		Unit of measurement		Affected	Total in AOI
Burnt area		km²	No.	4,035	71,681.2
Active Flames		km²	No.	3.5	3
Estimated population		Number of inhabitants		4,035	412,669
Built-up	Residential Buildings	km²	No.	0.8	1.4
Transportation	Airfield runways	km	No.	0.8	1.4
	Highways	km	No.	54.1	484.5
	Primary Road	km	No.	42.9	1,037.6
	Secondary Road	km	No.	16.2	147.6
	Long-distance railways	km	No.	16.0	164.8
Facilities	Settling Basin	km²	No.	0.8	33.2
	Dams	km²	No.	0.0	0.0
	Constructions for mining or extraction	km²	No.	0.2	0.6
	Power plant constructions	km²	No.	0.0	138.6
	Sport and recreation constructions	km²	No.	0.3	64.4
	Other civil engineering works not elsewhere classified	km²	No.	0.0	51.7
Land use	Heterogeneous agricultural areas	km²	No.	12,850.9	209,922.5
	Forests	km²	No.	49,328.6	252,643.4
	Shrub and/or herbaceous vegetation association	km²	No.	6,156.2	89,940.2
	Open spaces with little or no vegetation	km²	No.	0.0	43.1
	Inland wetlands	km²	No.	85.1	2,950.4
	Other	km²	No.	158.2	9,191.8

## Map Information

In the last weeks (January- February 2023), Chile was heavily affected by serious forest fires/wild fires. On 5 January Chile requested support from UCPM Member States/ Participating States to limit the consequences of the destructive fires. The EMAS Copernicus service for satellite maps was triggered in support to operations in the affected areas.

The present map shows the fire delineation in the area of Rafael (Chile). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The scale of analysis is 1:50000. The estimated geometric accuracy (RMSE) is 12.5 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 2500 sq. m.

Relevant date records (UTC)			
Event	05/02/2023 00:00	Situation as of	14/02/2023 14:25
Activation	05/02/2023 20:28	Map production	16/02/2023

## Data sources

Pre-event image: Sentinel-2A/B (2023) (acquired on 03/01/2023 at 14:37 UTC, GSD 10.0 m, approx. 9% cloud coverage in AOI) provided under COPERNICUS by the European Union and ESA.

Post-event image: Post-event image: SPOT6/7 © Airbus DS (2023), (acquired on 13/02/2023 at 14:31 UTC, the 14/02/2023 at 14:25 UTC, GSD 1.5 m, approx. 3% cloud coverage in AOI) provided under COPERNICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Copernicus Global Land Service: Land Cover (2019), Global Administrative Areas (2012), refined by the producer.

Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2019  
[https://ghsl.jrc.ec.europa.eu/ghs\\_pop2019.php](https://ghsl.jrc.ec.europa.eu/ghs_pop2019.php)

## Disclaimer

Products elaborated in this Copernicus EMS Rapid Mapping activity are realized to the best of our ability, within a very short time frame, 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.

The current Burnt Area Delineation cumulates all burnt area extents from previous post-event products.

Delivery formats are Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles, Google Earth KML, GeoJSON).

Map produced by e-GEOS released by e-GEOS (ODO).

For the latest version of this map and related products visit  
<https://emergency.copernicus.eu/EMSR647>

jrc-ems-rapidmapping@ec.europa.eu  
© European Union  
For full Copyright notice visit <https://emergency.copernicus.eu/mapping/ems/site-copernicus-ems-mapping-portal>