

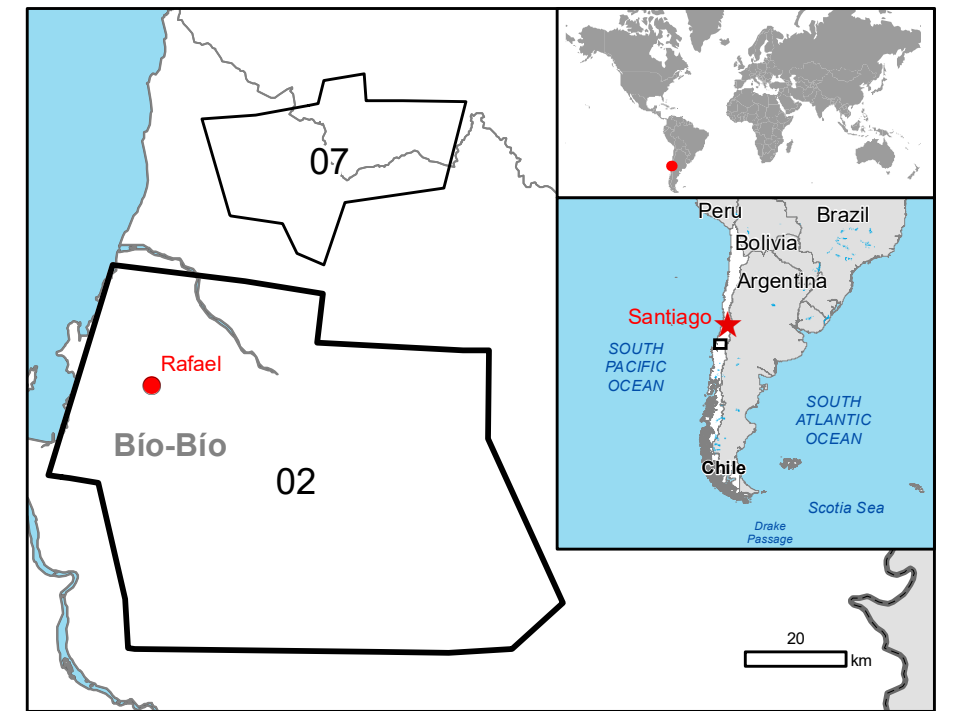
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Product N.: 02RAFAEL, V1

## Rafael - CHILE

### Wildfire - Situation as of 09/02/2023

#### Delineation MONIT01 - 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
Fire Fronts	<b>Built-Up Area</b>
Burnt Area	Residential
Area of Interest	<b>Hydrography</b>
Image Footprint	River
Not Analysed	Stream
Administrative boundaries	Lake
Province	Land Subject to Inundation
Municipality	Reservoir
	<b>Facilities</b>
	Construction for mining or extraction
	Power plant construction
	Sport and recreation constructions
	Dump Site
	Dam
	Settling Basin
	<b>Transportation</b>
	Highway
	Primary Road
	Secondary Road
	Long-distance railway
	Airfield runway
	<b>Land Use - Land Cover</b>
	Features available in the vector package

Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Burnt area		ha	62 773.6	47
Active Flames		No.	1.3	
Fire Fronts		km	1.3	
Estimated population	Number of inhabitants		3 528	412 868
Built-up	Residential Buildings	ha	3.4	2 890.7
Transportation	Airfield runways	km	0.8	1.4
	Highways	km	54.1	404.5
	Primary Road	km	40.9	1 037.6
	Secondary Road	km	15.7	147.6
	Long-distance railways	km	13.9	164.8
Facilities	Settling Basin	ha	0.6	33.2
	Dams	ha	0.0	0.0
	Constructions for mining or extraction	ha	0.2	0.6
	Power plant constructions	ha	0.0	138.6
	Sport and recreation constructions	ha	0.3	64.4
	Other civil engineering works not elsewhere classified	ha	0.0	51.7
Land use	Heterogeneous agricultural areas	ha	12 162.4	200 002.5
	Forests	ha	42 560.6	252 643.4
	Shrub and/or herbaceous vegetation association	ha	7 816.3	89 940.2
	Open spaces with little or no vegetation	ha	0.0	432.1
	Inland wetlands	ha	84.1	2 950.4
	Other	ha	145.1	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 EMS 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	09/02/2023 14:13
Activation	05/02/2023 20:28	Map production	10/02/2023

#### Data sources

Pre-event image: Sentinel-2A/B (2023) (acquired on 03/01/2023 at 14:37 UTC, GSD 10.0 m, approx. 0% cloud coverage in AOI) provided under COPERNICUS by the European Union and ESA.

Post-event image: SPOT6/7 @ Airbus DS (2023), (acquired on 09/02/2023 at 14:13 UTC, GSD 1.5 m, approx. 0% cloud coverage in AOI, 23° off-nadir angle), provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimedia.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\\_ppp2019.php](https://ghsl.jrc.ec.europa.eu/ghs_ppp2019.php)

#### Disclaimer

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

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

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