GLIDE number: N/A
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Activation ID: EMSR637
Product N.: 04ROCHESTER, v1

Rochester - AUSTRALIA

Flood - Situation as of 15/10/2022

Delineation - Overview map 01

Cartographic Information

1:25000

Full color A1, 200 dpi resolution

0 0.5 1 2 km

Grid: WGS 1984 UTM Zone 55S map coordinate system
Tick marks: WGS 84 geographical coordinate system

N

Legend

Crisis Information
- Flooded Area

General Information
- Area of Interest
- Detail map

Administrative boundaries
- Province

Placenames
- Placename

Built-Up Area
- Residential
- Wholesale and retail trade
- School, university and research
- Hospital or institutional care
- Cemetery

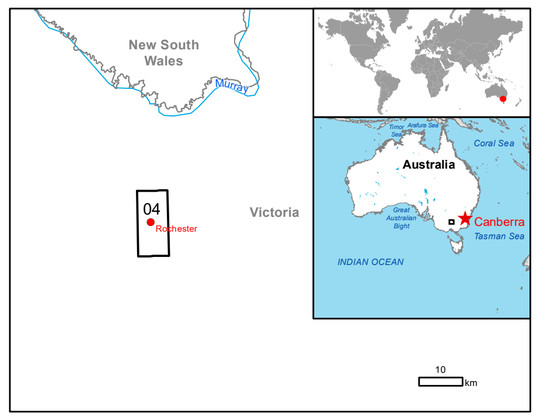
Hydrography
- Stream
- Lake
- Reservoir
- River

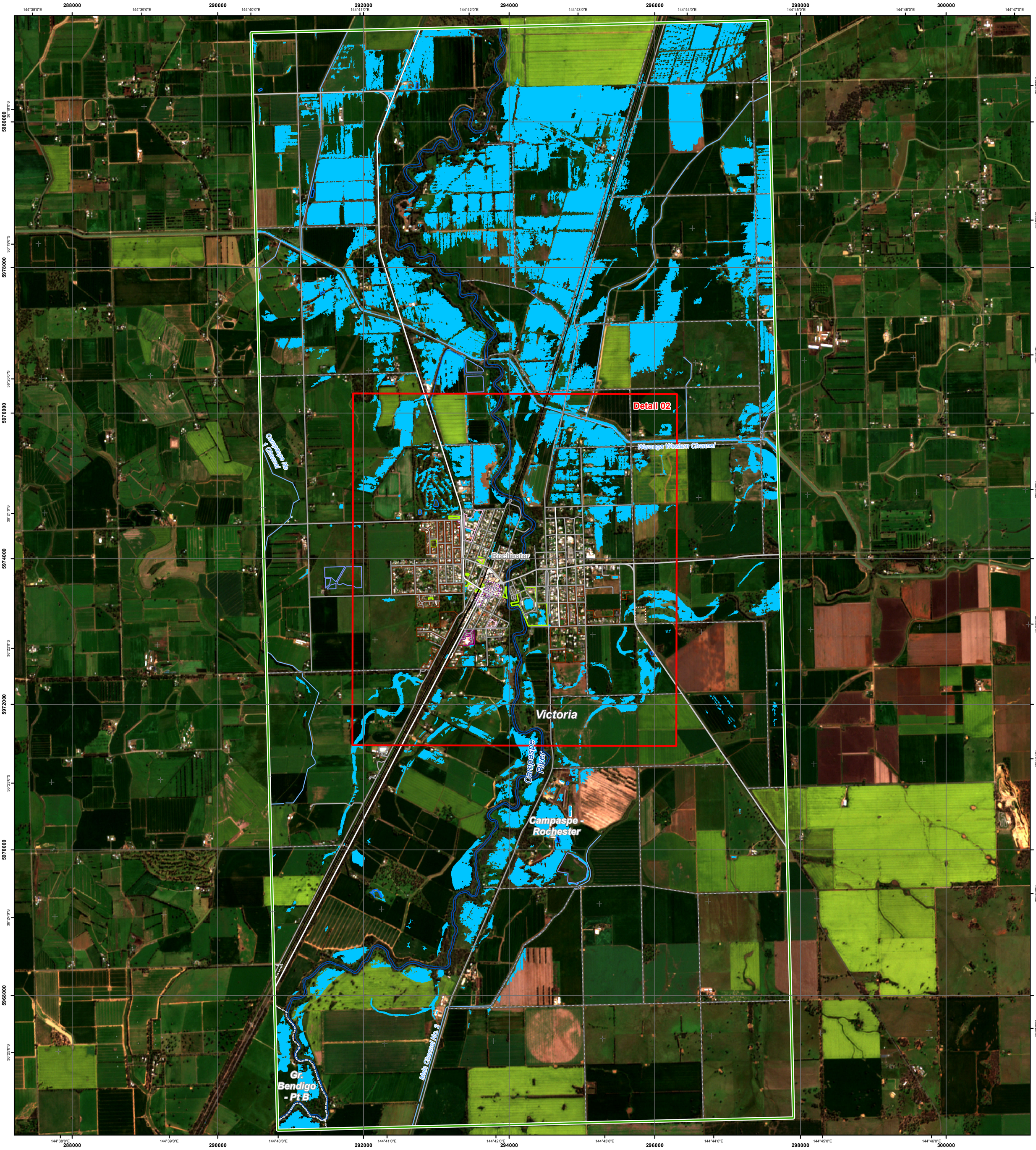
Facilities
- Navigable canal
- Sport and recreation constructions

Transportation
- Primary Road
- Secondary Road
- Local Road
- Cart Track
- Long-distance railway

Land Use - Land Cover
Features available in the vector package

Consequences within the AOI				
	Unit of measurement		Affected	Total in AOI
Flooded area		ha		1,628.6
Estimated population	Number of inhabitants		56	2,482
Built-up	Residential Buildings	ha	0.1	100.1
	Wholesale and retail trade buildings	ha	0.0	4.0
	School, university and research buildings	ha	1.4	7.1
	Hospital or institutional care buildings	ha	0.0	2.4
	Cemetery	ha	0.0	3.1
Transportation	Primary Road	km	0.5	16.4
	Secondary Road	km	0.9	12.4
	Local Road	km	4.8	74.9
	Cart Track	km	8.0	73.3
	Long-distance railways	km	0.4	15.2
Facilities	Sport and recreation constructions	ha	3.6	18.7
	Long-distance pipelines, communication and electricity lines	km	0.0	0.1
	Navigable canals	km	6.1	29.2
Land use	Heterogeneous agricultural areas	ha	554.9	4,777.3
	Forests	ha	28.3	338.8
	Shrub and/or herbaceous vegetation association	ha	1,035.1	5,226.7
	Inland wetlands	ha	7.7	36.3
	Other	ha	2.7	316.7





Map Information

The Australian Continent continues to experience a prolonged rainfall event. This ongoing weather pattern has now impacted most of the state of New South Wales where a large number of the communities within the area are experiencing severe flooding. Continued and extensive rainfall is expected in the areas of interest over the coming days as well as in the northern part of Victoria. Copernicus EMS RM is required to provide Delineation products with a daily monitoring.

The present map shows the flood delineation in the area of Rochester (Australia). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The scale of analysis is 1:25000. The estimated geometric accuracy (RMSE) is 6.25 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 625 sq m.

Data sources

Pre-event image: Sentinel-2A/B (2022) (acquired on 02/09/2022 at 00:27 UTC, GSD 10 m, approx. 0% cloud coverage in AoI, 0° off-nadir angle) provided under COPERNICUS by the European Union and ESA.
Post-event image: TerraSar-X © Infoterra GmbH (acquired on 15/10/2022 at 08:53 UTC, GSD 3.3 m), provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2022), 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
Digital Elevation Model: SRTM (30 m) (NASA/USGS)

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.
Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

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

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

For the latest version of this map and related products visit https://emergency.copernicus.eu/EMSR637

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Relevant date records (UTC)

Event	12/10/2022 02:30	Situation as of	15/10/2022 08:53
Activation	12/10/2022 08:17	Map production	15/10/2022

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