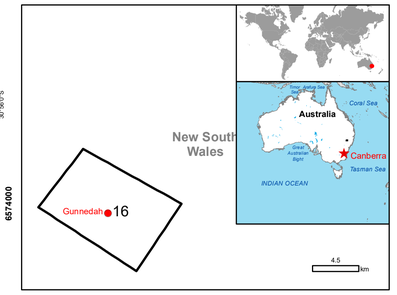
GLIDE number: N/A
Int. Charter Act. ID: N/A

Activation ID: EMSR637
Product N.: 16GUNNEDAH, v1

Gunnedah - AUSTRALIA

Flood - Situation as of 25/10/2022

Delineation MONIT01 - Overview map 01



Cartographic Information

1:23000

Full color A1, 200 dpi resolution

0 0.5 1 2 km

N

Grid: WGS 1984 UTM Zone 56S map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

Crisis Information
- Flooded Area
- Previous Flooded Area (24/10/2022 08:40 UTC)

General Information
- Area of Interest

Placenames
- Placename

Built-Up Area
- Residential
- Industrial
- School, university and research
- Hospital or institutional care
- Cemetery

Hydrography
- River
- Stream
- Lake
- Reservoir
- River

Facilities
- Power and communication line
- Sport and recreation constructions
- Dam
- Settling Basin

Transportation
- Primary Road
- Secondary Road
- Local Road
- Cart Track
- Long-distance railway
- Airfield runway
- Airfield runway
- Helipad

Land Use - Land Cover
Features available in the vector package

Consequences within the AOI			
		Affected	Total in AOI
Previous flooded area	ha		1,922.3
Flooded area	ha		935.3
Estimated population		44	7,421
Built-up	ha	3.4	648.7
Transportation	km	4.5	220.6
	ha	8.3	99.7
Facilities	km	0.8	25.4
	ha	4.3	114.4
Land use	ha	935.3	8,476.9

Full table available in the vector package

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 Gunnedah (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.

Relevant date records (UTC)

Event	12/10/2022 02:30	Situation as of	25/10/2022 07:09
Activation	12/10/2022 08:17	Map production	25/10/2022

Data sources

Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 04/01/2022, GSD 0.6 m, approx. 0% cloud coverage in AoI).
Post-event image: Sentinel-1A/B (2022) (acquired on 24/10/2022 at 08:40 UTC, GSD 10.0 m) provided under COPERNICUS by the European Union and ESA, COSMO-SkyMed © ASI 2022), distributed by e-GEOS S.p.A. (acquired on 25/10/2022 at 07:09 UTC, GSD 3.0 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, 2022 https://ghsl.jrc.ec.europa.eu/ghs_pop2022.php

Digital Elevation Model: SRTM (90 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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