



Fuji



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Summary

This is a 3D model of Fuji, at 1:500'000.

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This is a 3D model of Fuji, at 1:500'000.

It measures $4.8 \times 4.8 \times 1.1$ cm and covers real terrain between 175 and 3776 m above sea level — heights are at true scale, with no vertical exaggeration.

WHAT'S IN IT

Terrain from Copernicus GLO-30: 30 m source data on a 100 m model grid

Place name and scale engraved into the underside

PRINTING

The model is one closed, watertight body — 120,096 triangles

No supports needed: terrain has no overhangs

0.1–0.2 mm layers. Adaptive layer height suits relief well — fine on the ridges, coarse on the flats

Base is 4 mm thick under the lowest point

A separate drop-in frame is included: 5.4 × 5.4 cm, 6 mm tall. The model drops in from above and rests on an inner ledge — print it in a second colour

IN CAD

Written in millimetres, with (0, 0, 0) at the centre of the cut-out on the underside of the base — nothing sits millions of units from the origin, so no CAD program has to round

1 mm on the model is 500.000 m on the ground (1:500'000)

That origin is E 293,829.10 / N 3,915,645.26 in EPSG:32654, with the base plane at -1,814.60 m above sea level

To georeference it again: multiply the millimetres by 500.000 to get metres, then add that vector

DATA

Built from open geodata:

Copernicus GLO-30 (terrain)

This data is free to use, including commercially, and derived works may be shared — provided the source is credited:

© Data: Copernicus DEM — produced using Copernicus WorldDEM-30 © DLR e.V. 2010–2014 and © Airbus Defence and Space GmbH 2014–2018, provided under COPERNICUS by the European Union and ESA · Place names © OpenStreetMap contributors (ODbL)

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Made with Manifold, which turns open geodata into printable models.

Model files

manifold_20261008-174650_1zu500000.stl





manifold_20261008-174650_1zu500000_rahmen.stl

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