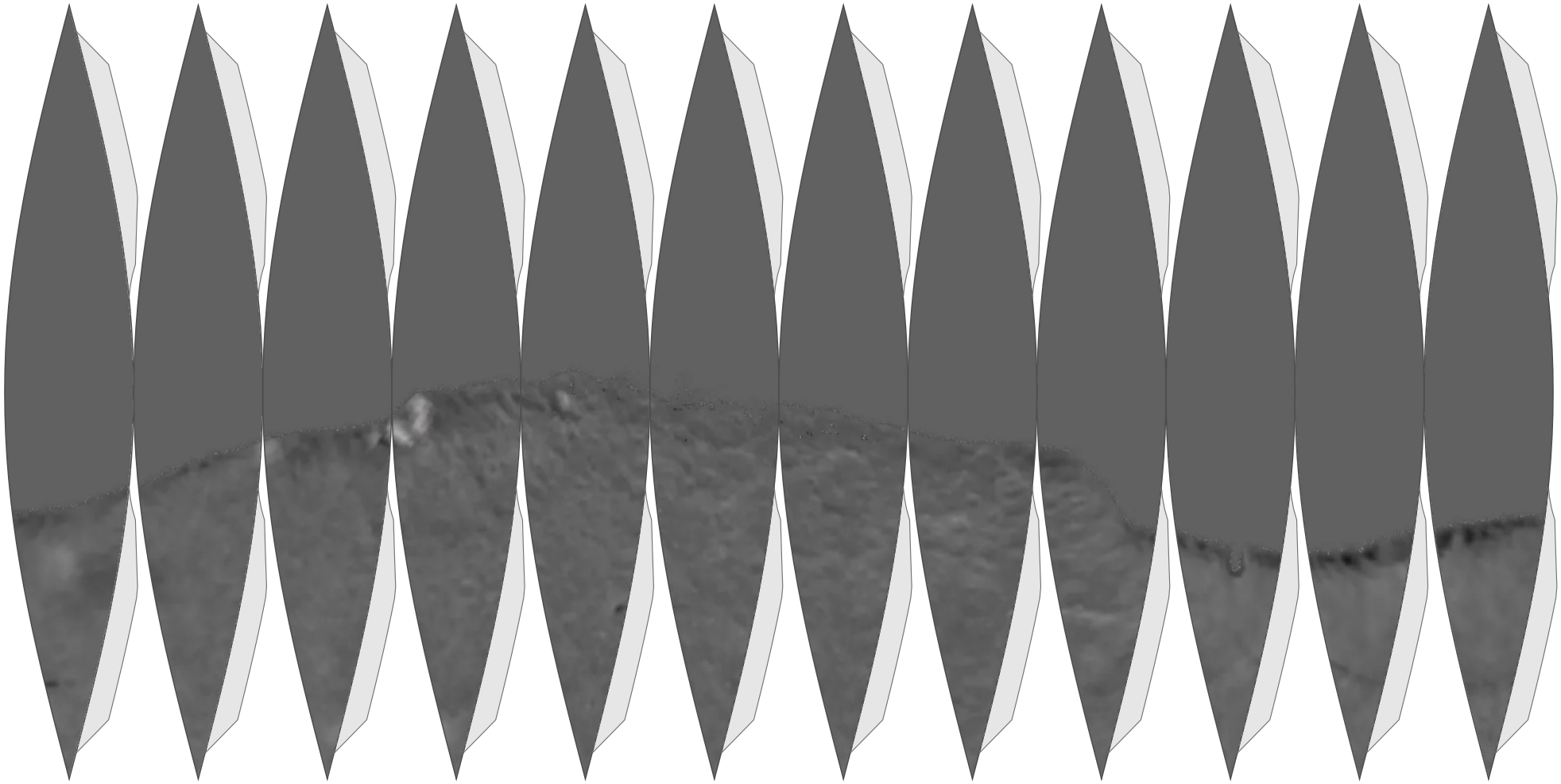
# Umbriel

A paper globe, 82 mm across: a scale of 1 : 14.3 million. The Earth at this scale would be 89 cm across.

See Umbriel turn in the live 3D map:
**www.spaceradar.ai/#at=umbriel**



### How to make it

1. Print at actual size on thick paper (160 to 200 g/m2), or glue the print to thin card. 2. Cut round the outside line, tabs and all. Do not cut along the equator: the gores stay joined there. 3. Fold each grey tab back along its dotted line. 4. Curve the gores up one at a time and glue each tab under the edge of the next gore, the north first, then the south; the last tab closes the ball. The top of the sheet is north.

### True scale

Umbriel's mean radius is 584.7 km (registry/worlds.yaml). At 82 mm across the globe is 1 : 14.3 million: one millimetre here is 14 km there. Only 37 % of its surface has been photographed well enough to map; the rest is one plain colour, and no feature there is invented.

### The map

Measured: pictures taken by spacecraft and telescopes, as credited here.
Umbriel map: NASA/JPL-Caltech/USGS (Voyager 2), public domain

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