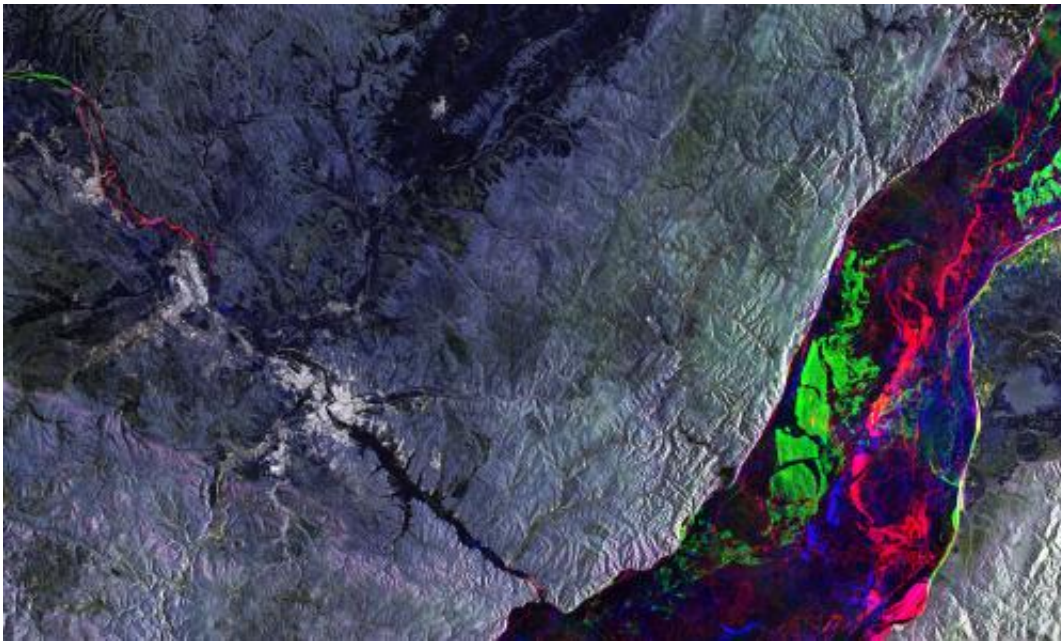


Image: Orbital view of Irkutsk and Lake Baikal

April 3 2015



Credit: Copernicus data (2015)/ESA

The city of Irkutsk (centre left) and part of Lake Baikal (right) are pictured in this Sentinel-1A image over Russia's Siberia region.

Baikal is the largest lake by volume in the world, containing over 23 000 cubic km of [freshwater](#), and is considered to be the oldest lake in the world. It sits in the Baikal Rift Zone where Earth's [crust](#) is pulling apart. Hot springs are found under and around the lake.

The area has over 1000 species of plants and 2500 [species](#) of animals. More than 80% of the animals found here are endemic.

Located on the Angara River, Irkutsk is a popular stop on the Trans-Siberian railway because of its vicinity to Lake Baikal.

This image combines three radar scans from the Sentinel-1A satellite on 11 January, 4 February and 24 March 2015, with each scan being assigned a colour: red, green and blue. The colours present in Lake Baikal and the Angara River show the location of ice on the different dates.

Sentinel-1A marks one year in orbit today, 3 April. It is the first satellite for Europe's Copernicus environment monitoring programme, delivering information on Earth's oceans, ice and changing lands.

The data from the satellite benefit a variety of services related to, for example, the monitoring of Arctic sea-ice extent, routine sea-ice mapping, surveillance of the marine environment, monitoring land-surface for motion risks, mapping for forest, water and soil management, and mapping to support humanitarian aid and crisis situations.

Provided by European Space Agency

Citation: Image: Orbital view of Irkutsk and Lake Baikal (2015, April 3) retrieved 20 March 2024 from <https://phys.org/news/2015-04-image-orbital-view-irkutsk-lake.html>

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