

# JRC Dataset

## Mosaic of Copernicus Sentinel-1 Data at Global Scale

### Description:

(a) Mosaic of level-1 ground range detected Sentinel-1 (A and B) products with dual polarisation (VV+VH or HH+HV), covering the entire globe and represented as a false colour RGB composition; (b) Large scale mosaics of satellite data are crucial for several applications that involve geo-analysis with remote sensing data such as mapping large natural hazard areas, landcover classification and for guiding field investigations.

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PID: <http://data.europa.eu/89h/jrc-bigdataeoss-s1-mosaic>

### Keywords:

Big Data, Copernicus, Mosaic, Sentinel-1, discretization, histogram, image classification, image compositing, rendering

### Related resources:

#### Data access

##### Sentinel-1 global mosaic

A TeraPixel global mosaic of Copernicus Sentinel-1 data at about 20m spatial resolution and covering most the land mass has been created on the JRC Earth Observation Data and Processing Platform (JEODPP). The scope of this mosaic is to provide a global base layer for visual assessment of natural and man-made features such as built-up areas.

<https://cidportal.jrc.ec.europa.eu/services/webview/jeodpp/databrowser/?default=jeodppS1Mosaic2016>

#### Publications

##### Mosaicking Copernicus Sentinel-1 Data at Global Scale

Syrris, V., Corban, C., Pesaresi, M. and Soille, P., Mosaicking Copernicus Sentinel-1 Data at Global Scale, IEEE TRANSACTIONS ON BIG DATA, 2018, ISSN 2332-7790 (online), JRC110914.

DOI:[10.1109/TBDATA.2018.2846265](https://doi.org/10.1109/TBDATA.2018.2846265)

##### Proceedings of the 2017 conference on Big Data from Space

Soille, P. and Marchetti, P., Proceedings of the 2017 conference on Big Data from Space, Publications Office of the European Union, Luxembourg, 2017, ISBN 978-92-79-73527-1 (pdf), JRC108361.

DOI:[10.2760/383579](https://doi.org/10.2760/383579)

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