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ASSIMILA

Generating Consistent cloud free spatio-temporal datasets

At Assimila, we have successfully generated a framework that produces consistent cloud free composites for all areas of Earth surveyed by Sentinel 2. The aim of the summer project has been to create a system that when given a region and date along with a few other parameters, generates cloud free surface data with many applications.

Product acquisition chain

Region and Date Selection	→	Inputting cloud mask parameters and generating TOA reflectance data	→	Applying enhancements to individual bands

Displaying generated products in GeoTiff, or online PNG web format	←	Merging individual bands to form true/false colour RGB composites

Reflectance data

Enhanced GeoTIFFs

Online web visualisations