

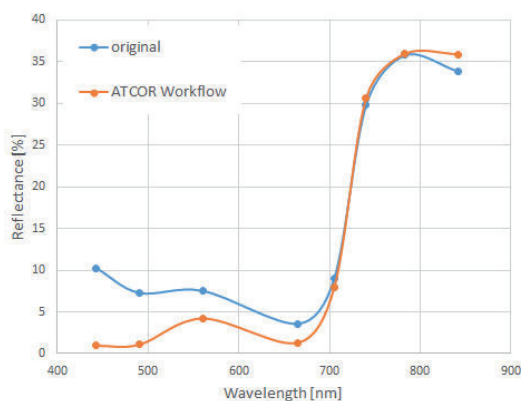
# ATCOR WORKFLOW FOR IMAGINE

Minimize atmospheric effects in satellite images to gain brilliance and true surface reflectance.



ATCOR Workflow  
for IMAGINE

With **ATCOR®** (ATCOR stands for ATmospheric CORrection) you **dehaze and free your images from atmospheric and illumination effects**. As a result, you determine **true surface characteristics**. Such a correction is especially important in cases where **multi-temporal images** are to be compared and analyzed.

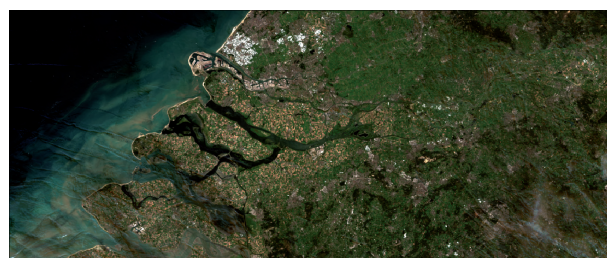
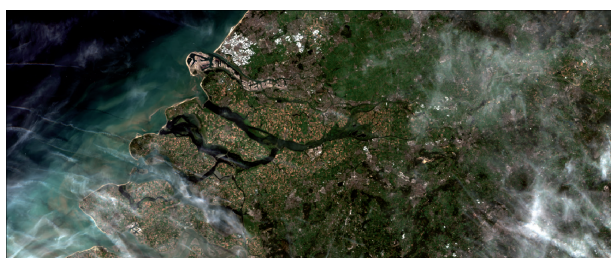


The spectral profile of green vegetation before (blue) and after (brown) correction with ATCOR Workflow for IMAGINE, taken from a Sentinel-2 image. The brown line corresponds to the typical spectral signature of green vegetation.

**ATCOR Workflow for IMAGINE is a new software add-on for ERDAS IMAGINE®, providing a superior dehaze algorithm, state-of-the-art workflow technology and an easy-to-use user interface.**

The **architecture** behind the ATCOR Workflow for IMAGINE is the **Spatial Modeler framework within ERDAS IMAGINE**. But no worries - you can, but you don't have to be familiar with the Spatial Modeler to benefit from ATCOR Workflow for IMAGINE.

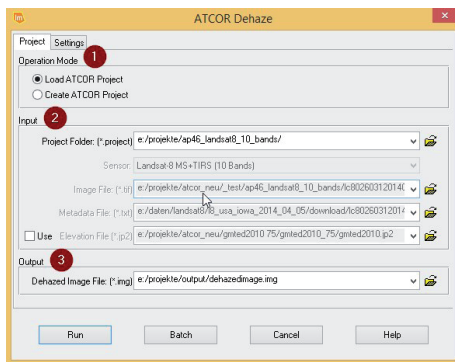
ATCOR Workflow for IMAGINE comes with an **easy-to-use dialogue** that leads you step-by-step through the dehaze and correction workflow. Main parameter settings are set by default, and the import of metadata and calibration file information run automatically.



Latest technology for haze and cirrus removal (here: Sentinel-2 data from the Netherlands)

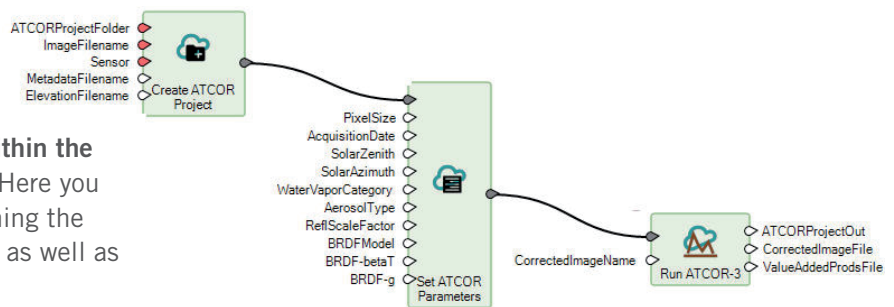
Produce brilliant images without haze. Use corrected images with “true” surface reflectances for further image analyses, e.g. change detection and feature extraction.

# ATCOR Workflow for IMAGINE



By integrating the **ATCOR operators** in your individual **workflow**, you are able to set up a **Spatial Model** for a complete image analysis chain. Thus, your data processing runs fully automatic from data import through dehazing and atmospheric correction, over to the image analysis (e.g. NDVI) into the final output of geoinformation products.

Advanced users will find it useful to work with **ATCOR Workflow for IMAGINE within the Spatial Modeler in IMAGINE Professional**. Here you have access to all ATCOR operators containing the functionality for dehazing and atmospheric as well as topographic (illumination) correction.



## Technical Highlights

- Superior dehaze algorithm.
- Retrieval of surface reflectance, emissivity and temperature by atmospheric and topographic correction.
- Automatic metadata import.
- Fully automatic algorithm for statistical haze and cirrus cloud removal.
- Fully integrated DEM preparation.
- BRDF correction in rugged terrain.
- Calculation of value-added products, e.g. LAI, FPAR, Albedo.
- Support of more than 30 commercial and non-commercial sensors, e.g. Sentinel-2, WorldView, SPOT, Pléiades, Landsat, VENµS, Supersview-1.
- 3 modules:
  - ATCOR-2 for flat terrain
  - ATCOR-3 for rugged terrain
  - Dehaze

## Important to know

- Needs a running IMAGINE Essentials license as prerequisite.
- The core functionality in the background is based on IDL (Interactive Data Language). The ATCOR Workflow for IMAGINE installer comes with the license-free IDL Virtual Machine. An extra commercial IDL license is not required, but is useful e.g. for unattended batch processing.
- The strong co-operation with ReSe Applications Schlöpfer and DLR assures continuous improvements of the product.
- **Information about prices:**
  - DACH: [sales@geosystems.de](mailto:sales@geosystems.de)
  - Outside DACH: [Regional Hexagon Partners](#)

[www.atcor.de](http://www.atcor.de)



GEOSYSTEMS is a software vendor and service partner for geospatial solutions and helps public authorities, private companies and educational organizations to easily transform location-based data into actionable information. As Hexagon platinum partner, GEOSYSTEMS offers not only leading-edge products for remote sensing, photogrammetry, GIS and data management, but also Hexagon Smart M.App solutions for easy-to-use dynamic map experiences. In addition, GEOSYSTEMS develops customized applications, implements tailor-made workflows and provides excellent trainings. GEOSYSTEMS GmbH, Riesstraße 10, 82110 Germering, GERMANY; T: +49 89 894343-0, E: [info@geosystems.de](mailto:info@geosystems.de), [www.geosystems.de](http://www.geosystems.de)