

MODDO - Version 6.0

Modtran® 6 for Remote Sensing Research

Scientific Tool

used to...

analyse signatures at various sensor systems,

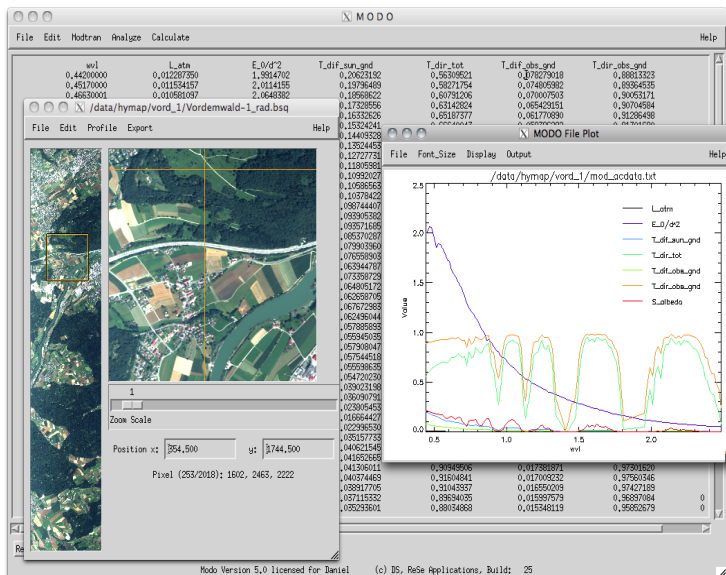
design hyperspectral instruments,

calibrate and validate operational sensors,

propagate surface reflectance signatures,

learn about radiative transfer, and

investigate atmospheric gases and aerosols.



Ease of Use

MODDO provides access to the MODTRAN®5 radiative transfer code through a graphical user interface. It has been designed for use by the remote sensing specialists. Moreover, it is well suited for generic use of MODTRAN®6 and for educational purposes.

Features

- graphical interface to the original MODTRAN®5 software as developed by SSI/AFGL,
- direct call of MODTRAN®6 for Windows and Linux / MacOSX,
- import/export of MODTRAN®5 tape5 control files,
- import/export of reflectance reference spectra,
- support for ENVI® spectral libraries,
- optionally includes original executable code and full license of MODTRAN® v6.0,
- extraction of radiance/transmittance/solar flux components from original MODTRAN®6 output,
- plotting of standard MODTRAN®5 outputs (tape7 / flux),
- direct at-sensor radiance simulation for remote sensing systems,
- broad collection of sensor response functions for airborne and spaceborne optical and thermal instruments,
- sensitivity analysis by series of critical parameters,
- helper functions for visibility determination and solar angles calculation,
- simple atmospheric correction (SACO) module for ENVI® formatted imagery,
- ENVI® file display and extraction of spectra, and
- complete, linked documentation.

Technical Requirements

- IDL 8.7 - IDL virtual machine provided with software distribution,
- 8 GB storage for complete MODTRAN® installation,
- Windows 10 or higher, Linux (x86, 64bit), or MacOSX.

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