

# MODDO - Version 5.2

## Modtran<sup>®</sup> 5 for Remote Sensing Research

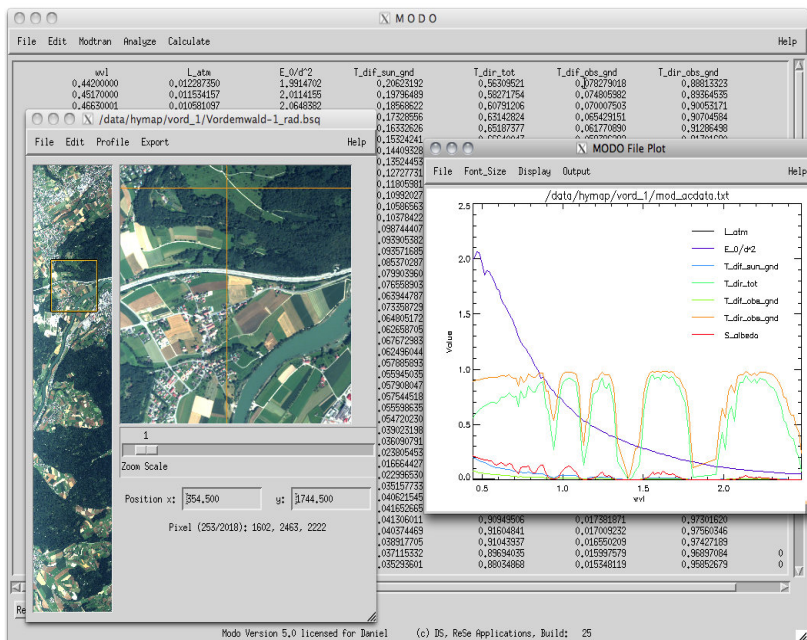
### Scientific Tool

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.

### Features

- graphical interface to the original MODTRAN<sup>®</sup>5 software as developed by SSI/AFGL,
- direct call of MODTRAN<sup>®</sup>5 for Windows and Linux/MacOSX,
- import/export of MODTRAN<sup>®</sup>5 tape5 control files,
- import/export of reflectance reference spectra,
- support for ENVI<sup>™</sup> spectral libraries,
- optionally includes original executable code and full license of MODTRAN<sup>®</sup> v5.3,
- extraction of radiance/transmittance/ solar flux components from original MODTRAN<sup>®</sup>5 output,
- plotting of standard MODTRAN<sup>®</sup>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<sup>™</sup> formatted imagery,
- ENVI<sup>™</sup> file display and extraction of spectra, and
- complete, linked documentation.



### Ease of Use

MODDO provides access to the MODTRAN<sup>®</sup>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<sup>®</sup>5 and for educational purposes.

### Technical Requirements

- IDL 8.4 - IDL runtime provided with software distribution,
- 2 GB storage for complete MODTRAN<sup>®</sup>5 installation,
- Windows XP or higher, Linux (x86, 64bit), or MacOSX.

The MODTRAN<sup>®</sup> trademark is being used with the express permission of the owner, the United States of America, as represented by the United States Air Force, and by Spectral Sciences, Inc. (for use outside of the USA). Modtran<sup>®</sup> software included in this product is licensed from the United States of America, as represented by the United States Air Force, under U.S. Patent Nos. 5,884,226, 7,433,806 and 7,593,835 B2.

For more information please visit our web page at [www.rese-apps.com](http://www.rese-apps.com) or contact:  
ReSe Applications GmbH, Dr. Daniel Schläpfer  
Langeggweg 3, CH-9500 Wil SG, Switzerland  
[info@rese.ch](mailto:info@rese.ch)

**ReSe**  
APPLICATIONS