

# MODO - Version 4

## Modtran4 for Remote Sensing Research

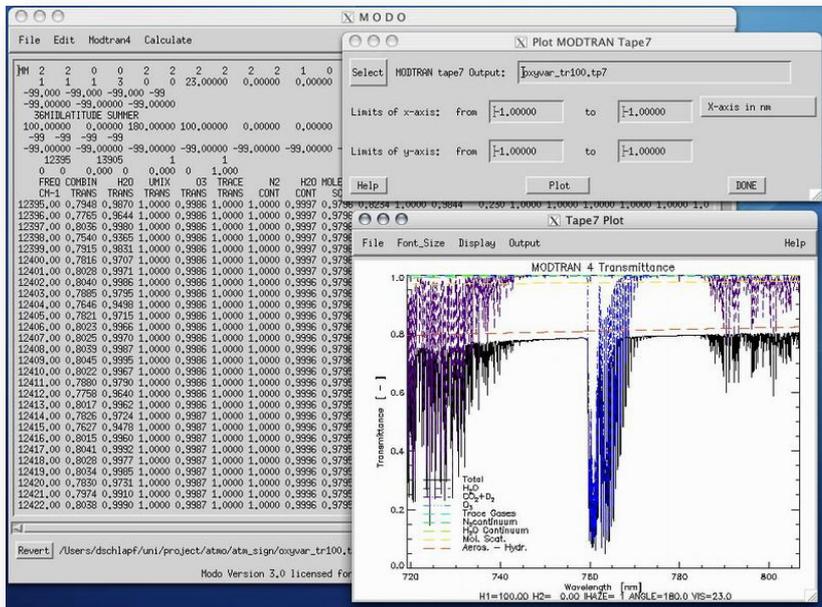
### Scientific Tool

useful for...

- analysis of signatures** at various sensor systems, hyperspectral instrument design,
- vicarious calibration** of operational sensors, surface reflectance signature propagations,
- education** about radiative transfer, and analysis of atmospheric gases and aerosols.

### Features

- creation of MODTRAN4 ('tape5') input,
- import/export of MODTRAN4 control files,
- import/export of ground reflectance spectra,
- support for ENVI™ spectral libraries,
- direct call of MODTRAN4 for Windows and UNIX/Linux/MacOSX,
- includes original executable code of MODTRAN4, v3r1



- extraction of radiance/transmittance/ solar flux components from original MODTRAN4 output,
- plotting of standard MODTRAN4 outputs (tape7 / flux),
- direct at-sensor radiance simulation for remote sensing systems,
- sensitivity analysis by series of critical parameters,
- broad collection of sensor response functions for airborne and spaceborne optical and thermal instruments,
- helper applications for visibility determination and solar angles calculation, and
- direct online help for each GUI and electronic user manuals for MODO and MODTRAN4.

### Ease of Use

MODO is a tool providing access to the wealth of the functionality of MODTRAN4 through a graphical user interface. It is often used as an expert system and is also well suited for educational purposes.

The built-in MODTRAN4 executables allow to use this radiative transfer code on all current operating systems.

### Technical Requirements

- IDL 8.0 and higher or the free IDL Virtual Machine (available from ExelisVis Corp.)
- Windows XP or higher, Solaris, Linux (x86), MacOSX ,
- high processing power for MODTRAN4 runs.

The included MODTRAN4 components are licensed from the United States of America under U.S. Patent No. 5,315,513.

MODO version 4 is a commercial product developed and maintained by ReSe Applications Schläpfer. The rights on the software and its documentation are ReSe's exclusive property and are protected by Swiss Law.

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