

INPUTS

Sensor configuration
Atmospheric profiles

Aerosol size,
refractive indices,
and concentration

Surface properties

OPTICAL PROPERTIES

Rayleigh scattering &
gaseous absorption
(HITRAN)

Surface bi-directional
reflectance (BRDF)

Aerosol scattering by
Linearized Mie & Linearized
T-matrix codes
(AOD, SSA, phase function)

RADIATIVE TRANSFER

Linearized
radiative
transfer
(VLIDORT):

OUTPUTS

Radiances
Polarization

And their
Jacobians to
various
parameters of
aerosol, tracer
gases, and surface

