

Atmospheric description

- Trace gas profiles
- Temperature profile
- Ozone column
- Precipitable water
- Surface pressure
- Aerosol
- Water clouds
- Ice clouds
- Surface albedo
- Surface wind speed
- ...

Optical properties

- Profiles of
 - extinction coefficient
 - single scattering albedo
 - scattering phase function

Cross sections,
parameterizations,
aerosol and
cloud physics,
...

Radiation quantities

uncalibrated transmittance,
reflectance, radiances

**RTE
solver**

**Post-
processing**

Model output

- calibrated irradiance, actinic flux, radiance
- integrated solar or thermal irradiance
- brightness temperatures
- ...