SKYCALC Sky Model Calculator

Sky Model Mode Version 2.0.9 Description FAQ

Input Configuration

```
Observatory Height : 2640m above sea level

Altitude : 90.0
Airmass  : 1.00

Season      : Entire Year
Time Period : Entire Night
PWV         : 2.50 mm

Monthly Averaged Solar Radio Flux : 130.00 sfu
```

Components included in the radiance model:

```
   Scattered Moonlight:
      separation of Sun and Moon       : 90 degrees
      separation of Moon and object    : 45 degrees
      altitude of Moon above horizon   : 45 degrees
      distance to Moon                 : 1.000

   Scattered Starlight

   Zodiacal Light:
      heliocentric ecliptic longitude of object : 135 degrees
      ecliptic latitude of object               : 90 degrees

   Molecular Emission of Lower Atmosphere
   Emission Lines of Upper Atmosphere
   Airglow/Residual Continuum
```

Wavelength grid:

```
    Range: 800.00 nm - 2500.00 nm
    Fixed spectral resolution R=20000
```

Wavelengths in Air or Vacuum : Vacuum

LSF convolution kernel: none

Output

Download the resulting model spectra as FITS table: skytable.fits

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Calculated broad-band magnitudes per arcsec^2

```
U:  20.80
B:  21.13
V:  20.67
R:  20.32
I:  19.47
Z:  18.66
Y:  17.58
J:  16.87
H:  14.43
K:  15.23
L:   6.00
M:   1.14
N:  -2.29
Q:  -7.27
```

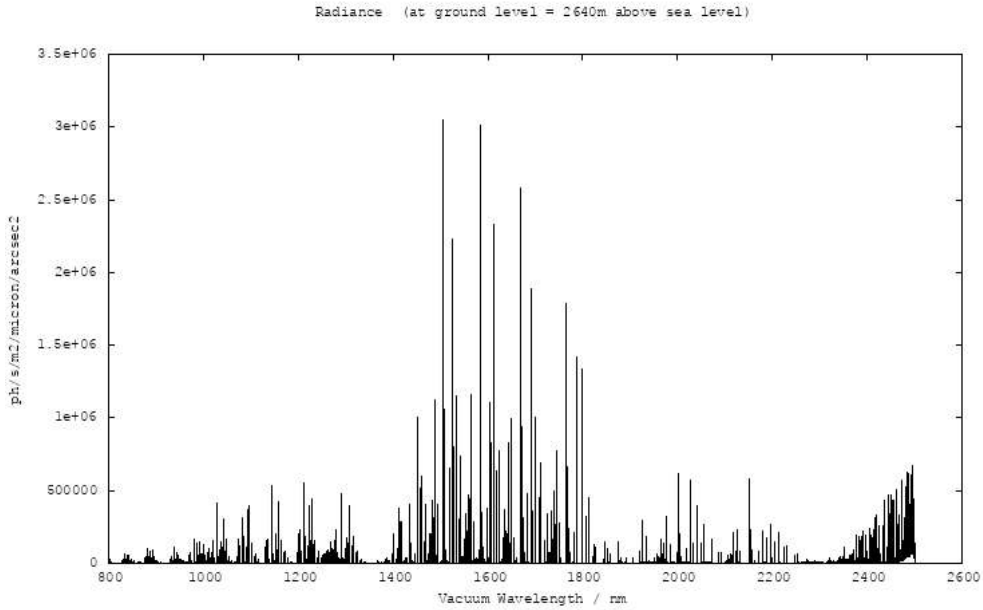
Filter curves and photometric zero points

Radiance (at ground level = 2640m above sea level)

ASCII Interactive PDF

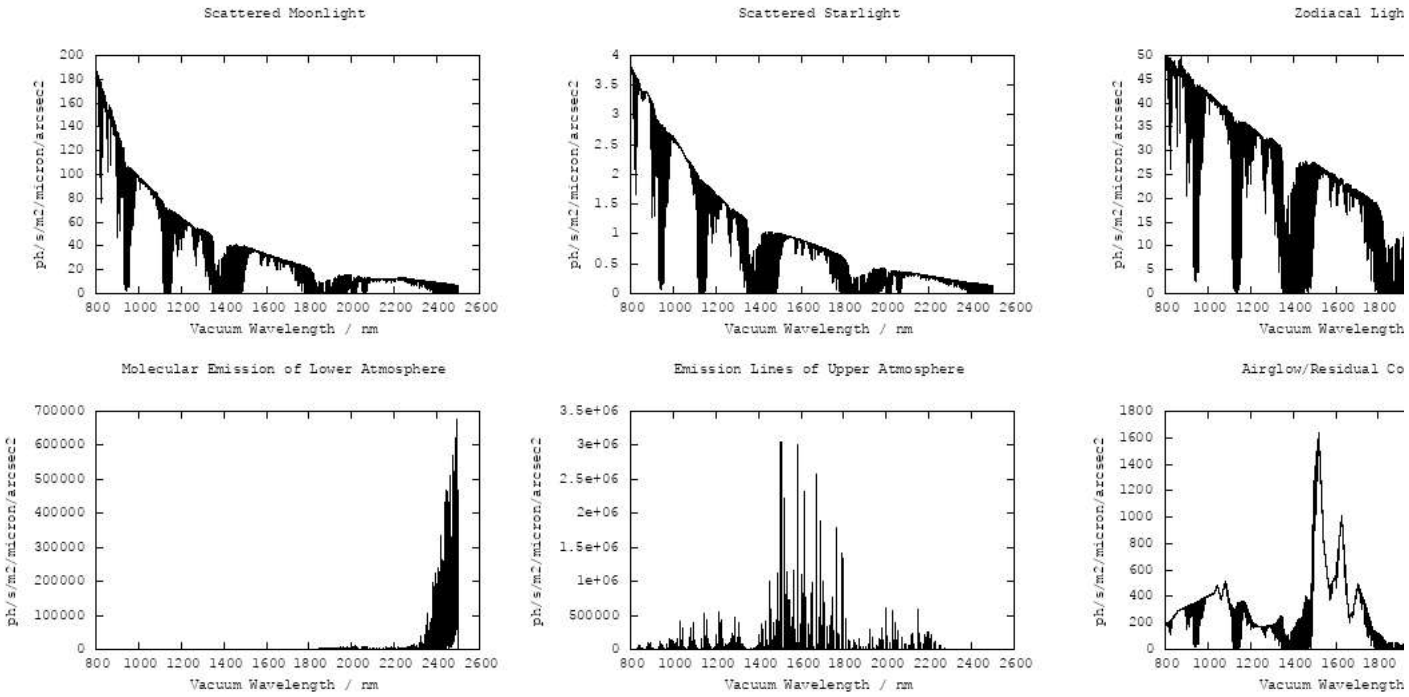
log(y) plot

log(y) PDF



Radiance Components (at ground level = 2640m above sea level)

ASCII Interactive PDF

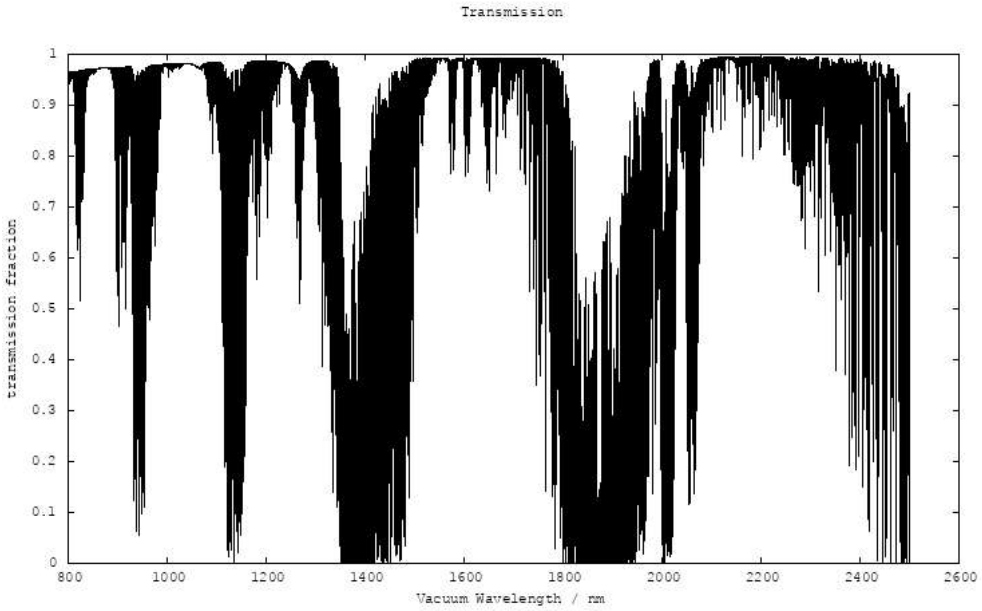


Transmission

ASCII Interactive PDF

log(y) plot

log(y) PDF

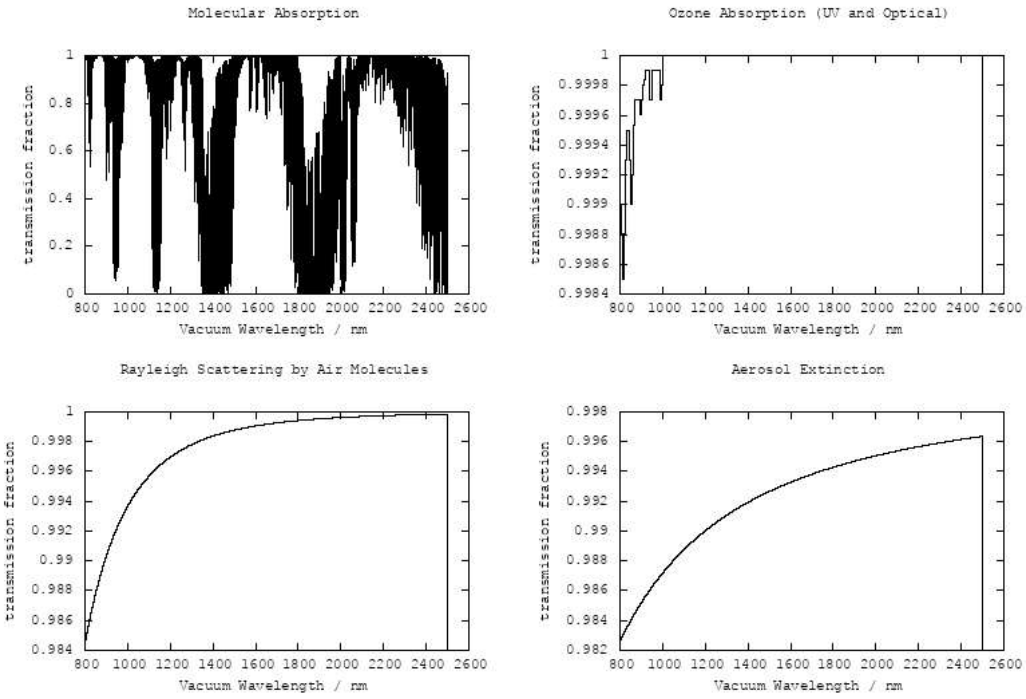


Transmission Components

ASCII Interactive PDF

log(y) plot

log(y) PDF



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