Subroutine DTRN31

[OPPARM2]

In:parameter table
Out: absorption coefficient, optical parameters, mode radius

[BCVR]

In:cloud cover
Out: cloud cover matrix

[RMDIDX]

In:calculated mode radius
Out:fitted mode radius

[PLANKS] ← [PLANKF]

In:temperature,
function fitting parameter
Out:Plank function

[PTFIT2]

In:gas concentration, absorption coefficient
Out:optical thickness due to gas

[CNTCFC2]

In:CFC concentration,
absorption coefficient
Out:optical thickness due to CFC

[SCATAE]

In:aerosl concentration, optical parameters, fitted mode radius
Out:optical thickness due to aerosol

[SCATRY]

In:Rayleigh scattering coefficient, phase function moment, pressure
Out:optical thickness due to Rayleigh scattering

[SCATCL]

add each optical thickness

In:cloud concentration, optical parameters, fitted mode radius
Out:optical thickness due to cloud

[PLKEXP]

In:total optical thickness, Plank function
Out:expansion coefficient

[TWST]

In:optical thickness, scattering moments, expansion coefficients solar incidence angle factor
Out: transmission and reflection coefficient, radiation source function

[RTSMR]

In:transmission and reflection coefficient, radiation source function, cloud cover matrix
Out: transmission and reflection and source matrixes

[ADDMR]

In:transmission and reflection and source matrixes
Out:radiation flux

[ADDING]

In:transmission and reflection coefficient, radiation source function
Out:radiation flux