

n_notbio —> number of non-biological species (e.g. cities, lakes, bare soil)

n_bio —> number of biological species (including separate age classes as separate species)

ncol_enerbil —> number of enerbil atmospheric columns (e.g. in scheme 2, ncol_enerbil = n_notbio + n_bio

n_points —> number of global grid points

ncol_snow —> number of snow columns

ncol_heatsoil —> number of heat transport columns in the soil

ncol_hydlsoil —> number of hydrological transport columns in the soil

nbasin_max —> maximum number of water basins

MODEL: ORCHIDEE

SUB MODEL: sechiba

MODULE: enerbil

SUBROUTINE: column_calc

DO i = 1, npts

soilflux (i) —>

.....

—> temp_sol (i)

END DO ! i = 1, npts

temp_sol (npts)

MODULE:
thermosoil

(see next page)

preliminaries

DO i = 1, npts
DO j = 1, ncol_enerbil

IF OPTION 1 or 2

soilflux_internal (:, :) = soilflux(:, :)

IF OPTION 3

DO k = 1, ncol_heatsoil
soilflux_internal (i, j) =

FUNCTION (soilflux (i, k))

IF OPTION 4

DO k = 1, ncol_heatsoil
soilflux_internal (i, j) =

FUNCTION (soilflux (i, k))

END DO j = 1, ncol_enerbil

END DO i = 1, npts

DO i = 1, npts
DO j = 1, ncol_enerbil

IF OPTION 1

soilflux_internal (i, 1) —>

IF OPTION 2,3 or 4

soilflux_internal (i, j) —>

—> temp_sol (i, j)

END DO ! j = 1, ncol_enerbil

END DO ! i = 1, npts

temp_sol (npts, ncol_enerbil)

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