

TECOModelComparison

Last Checkpoint: 11/16/2021 (unsaved changes)

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Code

Voilà

expand

cable_general

expand

TECOmm

expand

TECO

expand

Lux2012TE

linear

no state dependence

undetermined

nonlinear

Cwood

Croots

Cmetlit

Cfoliage

Cstilt

Cpasssom

Cfastsom

Cslowsom

inspectModel

Last Checkpoint: a minute ago (autosaved)

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Code

Voilà

Out[3]:

linear

no state dependence

undetermined

Cwood

Cleaf

CHUM

Croot

CDPM

CRPM

CBIO

In [28]:

mvs.get_CompartmentalMatrix()

Out[28]:

$-r_{cleaf2cDPM} - r_{cleaf2cRPM}$	0	0	0	0
0	$-r_{cwood2cDPM} - r_{cwood2cRPM}$	0	0	0
0	0	$-r_{croot2cDPM} - r_{croot2cRPM}$	0	0
$r_{cleaf2cDPM}$	$r_{cwood2cDPM}$	$r_{croot2cDPM}$	$-(r_{cDPM2cBIO} + r_{cDPM2cCleaf})$	0
$r_{cleaf2cRPM}$	$r_{cwood2cRPM}$	$r_{croot2cRPM}$	0	r_{cDPM}
0	0	0	0	0
0	0	0	0	r_{cDPM}

In []:

mvs.get_BibInfo

##

get_CompartmentalMatrix

###

get_InFluxesBySymbol

Make

Conf

get_InputTuple

get_InternalFluxesBySymbol

get_OutFluxesBySymbol

get_SmoothReservoirModel

get_StateVariableTuple

with

net

TimeSymbol

In [4]:

imp

#

Re

get

StateVariableTuple

with

net

TimeSymbol

file in your model folder:

"name": "trendy-v9", "password": "gcb-2020", "dataPath": "

python from config.json file

le='r') as f:

computable_mvar_types

computers

get_BibInfo

get_CompartmentalMatrix

get_InFluxesBySymbol

get_InputTuple

get_InternalFluxesBySymbol

get_OutFluxesBySymbol

get_SmoothReservoirModel

get_StateVariableTuple

In []:

mvs.

In [3]:

we can also plot a picture

h.compartmental_graph(mvs)

Out[3]:

linear

no state dependence

undetermined

nonlinear

Croot

Cleaf

Cleafitter

inspectModel

Last Checkpoint: 03/07/2022 (autosaved)

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Code

Voilà

cSoil

0

1

14.450

14.445

14.440

14.435

14.430

14.425

14.420

14.415

0

20

40

60

80

100

120

createModel

(autosaved)

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Code

Voilà

In [60]:

og.jupyter_widget(
computer_aliases_tup=ca,
type_aliases_tup=ta,
given=mvs.provided_mvar_types
)

T3

InternalFluxesBySymbol

T4

SoilCarbonStateVariableTuple

T29

StateVariableTuple

T35

VegetationCarbonStateVariableTuple

T39

AggregatedVegetation2SoilCarbonFlux

T58

CompartmentalMatrix

T39

f31

T35 {T39}

T29 {T39}

T3 {T39}

T4 {T39}

f16

T58 {T39,T3}

T29 {T39,T3}

target type

not provided

function

given

f16

internal_fluxes_by_symbol_1

f31

aggregated_vegetation_to_soil_carb...