Construction du ForCS succession.txt

LandisData "ForC Succession"

Timestep 1

SeedingAlgorithm WardSeedDispersal

ClimateFile "ClimateInput.txt"

InitialCommunities "./initial-communitiessud.txt"

InitialCommunitiesMap "./initial-communitiessud.img"

SnagFile "snag.txt"

ForCSOutput

>> Output interval

>> Biomass DOM\_Pools Fluxes Summary

>> ----------------------------------------------------------------

10 10 10 10

SoilSpinUp

>> On/Off Tolerance Max

>> Flag % Iterations

>> ----------------------------------------------------------------

1 1.0 20

AvailableLightBiomass

>>Shade

>>Class Ecoregions

>> ----------------------------------------------

nord1 nord2 nord3 centre1 centre2 centre3 centre4 centre5 est1 est2

1 20% 20% 20% 20% 20% 20% 20% 20% 20% 20%

2 40% 40% 40% 40% 40% 40% 40% 40% 40% 40%

3 50% 50% 50% 50% 50% 50% 50% 50% 50% 50%

4 70% 70% 70% 70% 70% 70% 70% 70% 70% 70%

5 90% 90% 90% 90% 90% 90% 90% 90% 90% 90%

LightEstablishmentTable

>> Spp Shade Probability

>> Class by Actual Shade

>> ----------------------------------------------------------------------------------

>> 0 1 2 3 4 5

1 1 0.5 0.0 0.0 0.0 0

2 1 1 0.5 0.0 0.0 0

3 1 1 1 0.5 0.0 0

4 1 1 1 1 0.5 0

5 1 1 1 1 1 1

SpeciesParameters

Species Leaf Mortal Merchantable Merch. Merch. Prop.

>> Long Shape Stems Curve Shape Curve Shape Non-merch.

>> Param Min Age Param a Param b to FastAG

>> ------------------------------------------------------------------------------

BETUPOPU 1 25 30 0.7546 0.983 0.25

BETUALLE 1 25 30 0.7546 0.983 0.25

BETUPAPY 1 25 30 0.7546 0.983 0.25

PRUNSERO 1 25 30 0.7546 0.983 0.25

QUERALBA 1 25 30 0.7546 0.983 0.25

QUERRUBR 1 25 30 0.7546 0.983 0.25

PICEGLAU 5 15 10 0.7546 0.983 0.25

PICEMARI 5 15 10 0.7546 0.983 0.25

PICEABIE 5 15 10 0.7546 0.983 0.25

PICERUBE 5 15 10 0.7546 0.983 0.25

DOMPools

>> ID Name Proportion to

>> Atmosphere

>> ------------------------------------------------------------

1 "Very Fast Aboveground" 0.815

2 "Very Fast Belowground" 0.83

3 "Fast Aboveground" 0.83

4 "Fast Belowground" 0.83

5 "Medium" 0.83

6 "Slow Aboveground" 1

7 "Slow Belowground" 1

8 "Stem Snag" 0.83

9 "Other Snag" 0.83

10 "Extra pool" 0.83

EcoSppDOMParameters

ecoregion Spp Dom Pools Decay Rate Amount at T0 Q10 Ref Temp 10C

>> ------------------------------------------------------------------------------

nord1 BETUPOPU 1 0.355 0 2.65

nord1 BETUPOPU 2 0.5 0 2

nord1 BETUPOPU 3 0.1435 0 2

nord1 BETUPOPU 4 0.1435 0 2

nord1 BETUPOPU 5 0.0374 0 2

nord1 BETUPOPU 6 0.015 0 2.65

nord1 BETUPOPU 7 0.0033 0 1

nord1 BETUPOPU 8 0.0187 0 2

nord1 BETUPOPU 9 0.0718 0 2

nord1 BETUPOPU 10 0 0 2

ForCSProportions

>>

>> Biomass Biomass Annual Annual Annual

>> Fine Coarse SlowAG to StemSnag to BranchSnag

>> SlowBG Medium to FastAG

>> ---------------------------------------------------------------------------------------------

0.5 0.5 0.006 0.032 0.1

DisturbFireTransferDOM

>> Intensity From To To To

>> DOM Air DOM FPS

>> ---------------------------------------------------

1 1 0.7 0 0

1 2 0.02 0 0

1 3 0.7 0 0

1 5 0.04 0 0

1 6 0.44 0 0

2 1 0.75 0 0

2 2 0.04 0 0

2 3 0.75 0 0

2 5 0.04 0 0

2 6 0.54 0 0

2 8 0.02 0.2 0

2 9 0.4 0.2 0

3 1 0.76 0 0

3 2 0.04 0 0

3 3 0.76 0 0

3 5 0.08 0 0

3 6 0.51 0 0

3 8 0.04 0.3 0

3 9 0.68 0.3 0

4 1 0.88 0 0

4 2 0.06 0 0

4 3 0.88 0 0

4 5 0.16 0 0

4 6 0.75 0 0

4 8 0.08 0.4 0

4 9 0.645 0.2 0

5 1 1 0 0

5 2 0.08 0 0

5 3 1 0 0

5 5 0.24 0 0

5 6 0.99 0 0

5 8 0.12 0.6 0

5 9 0.61 0.3 0

DisturbOtherTransferDOM

>> Disturbance From To To To

>> Type DOM Air DOM FPS

>> -----------------------------------------------------------

harvest 1 0.0 0.3 0.0

harvest 8 0.0 1 0

harvest 9 0.0 1 0

wind 8 0.0 0.8 0.0

wind 9 0.0 1.0 0.0

>> Biomass Pools

>> Indices to be used when referring to biomass pools. \*\* Note there is no #4.

>> 1. Merchantable part of woody biomass

>> 2. Foliage

>> 3. Other woody biomass

>> 5. Coarse Root

>> 6. Fine Root

DisturbFireTransferBiomass

>> Intensity From To To To

>> Biomass Air FPS DOM

>> --------------------------------------------------

1 1 0 0 1

1 2 0.02 0 0.98

1 3 0 0 1

1 5 0 0 1

1 6 0.22 0 0.78

2 1 0 0 1

2 2 0.44 0 0.56

2 3 0.4 0 0.6

2 5 0.04 0 0.96

2 6 0.27 0 0.73

3 1 0 0 1

3 2 0.515 0 0.485

3 3 0.68 0 0.32

3 5 0.04 0 0.96

3 6 0.255 0 0.745

4 1 0 0 1

4 2 0.66 0 0.34

4 3 0.645 0 0.355

4 5 0.06 0 0.94

4 6 0.375 0 0.625

5 1 0 0 1

5 2 0.69 0 0.31

5 3 0.61 0 0.39

5 5 0.08 0 0.92

5 6 0.495 0 0.505

DisturbOtherTransferBiomass

>> If a disturbance occurs, this table defines how carbon should be transferred from the biomass pools to the DOM, Forest Products Sector, or air.

>> If mortality is caused by disturbance extension other than fire, and the biomass pools are not in this table the carbon will disappear.

>> Disturbance From To To To

>> Type Biomass Air FPS DOM

>> -------------------------------------------------------------------------

harvest 1 0 1 0

harvest 2 0 0 1

harvest 3 0 0 1

harvest 5 0 0 1

harvest 6 0 0 1

wind 1 0 0 1

wind 2 0 0 1

wind 3 0 0 1

wind 5 0 0 1

wind 6 0 0 1

bda 1 0 0 1

bda 2 0.3 0 0.7

bda 3 0.2 0 0.8

bda 5 0 0 1

bda 6 0 0 1

ANPPTimeSeries

>> Aboveground, annual net primary production

>> Yr Landtype Spp ANPP ANPP-Std

>> (g/m2/yr)

>> ----------------------------------------------------------------------

0 nord1 ABIEBALS 476 0

0 nord1 ACERRUBR 828 0

0 nord1 ACERSACC 1686 0

0 nord1 BETUALLE 1102 0

0 nord1 BETUPAPY 926 0

0 nord1 FAGUGRAN 1126 0

0 nord1 LARILARI 482 0

0 nord1 PICEGLAU 1585 0

0 nord1 PICEMARI 1270 0

0 nord1 PICERUBE 3432 0

0 nord1 PINUBANK 1872 0

MaxBiomassTimeSeries

>> Yr landtype Spp Max Biomass (g/m2)

>> ----------------------------------------------------------------------

0 nord1 ABIEBALS 3528

0 nord1 ACERRUBR 8650

0 nord1 ACERSACC 13317

0 nord1 BETUALLE 8759

0 nord1 BETUPAPY 5428

0 nord1 FAGUGRAN 13577

0 nord1 LARILARI 4655

0 nord1 PICEGLAU 16899

0 nord1 PICEMARI 14543

0 nord1 PICERUBE 20453

0 nord1 PINUBANK 14172

0 nord1 PINURESI 15111

0 nord1 PINUSTRO 11550

0 nord1 POPUTREM 11369

EstablishProbabilities

>> Yr landtype Spp Probability

>> --------------------------------------------------

0 nord1 ABIEBALS 0.737

0 nord1 ACERRUBR 0.737

0 nord1 ACERSACC 0.692

0 nord1 BETUALLE 0.692

0 nord1 BETUPAPY 0.838

0 nord1 FAGUGRAN 0.614

0 nord1 LARILARI 0.838

0 nord1 PICEGLAU 0.737

0 nord1 PICEMARI 0.614

0 nord1 PICERUBE 0.551

0 nord1 PINUBANK 0.838

0 nord1 PINURESI 0.737

0 nord1 PINUSTRO 0.737

0 nord1 POPUTREM 0.944

0 nord1 QUERRUBR 0.651

0 nord1 THUYOCCI 0.551

RootDynamics

>> MinABio value must be in acending order

Ecoregion Species MinABio Root PropFineRt Frturnover Crturnover

>> (g/m2) shoot

>>-------------------------------------------------------------------------------------------------------------------------------------------------

nord1 BETUPOPU 0 0.392 0.18 0.64 0.02

nord1 BETUALLE 0 0.392 0.18 0.64 0.02

nord1 BETUPAPY 0 0.392 0.18 0.64 0.02

nord1 PRUNSERO 0 0.392 0.18 0.64 0.02

nord1 QUERALBA 0 0.392 0.18 0.64 0.02

nord1 QUERRUBR 0 0.392 0.18 0.64 0.02

nord1 PICEGLAU 0 0.392 0.18 0.64 0.02

nord1 PICEMARI 0 0.392 0.18 0.64 0.02

nord1 PICEABIE 0 0.392 0.18 0.64 0.02

nord1 PICERUBE 0 0.392 0.18 0.64 0.02

nord2 BETUPOPU 0 0.456 0.18 0.64 0.02

nord2 BETUALLE 0 0.456 0.18 0.64 0.02

nord2 BETUPAPY 0 0.456 0.18 0.64 0.02

nord2 PRUNSERO 0 0.456 0.18 0.64 0.02

nord2 QUERALBA 0 0.456 0.18 0.64 0.02

nord2 QUERRUBR 0 0.456 0.18 0.64 0.02

nord2 PICEGLAU 0 0.456 0.18 0.64 0.02

nord2 PICEMARI 0 0.456 0.18 0.64 0.02

nord2 PICEABIE 0 0.456 0.18 0.64 0.02

nord2 PICERUBE 0 0.456 0.18 0.64 0.02

nord1 BETUPOPU 7500 0.239 0.18 0.64 0.02

nord1 BETUALLE 7500 0.239 0.18 0.64 0.02

nord1 BETUPAPY 7500 0.239 0.18 0.64 0.02

nord1 PRUNSERO 7500 0.239 0.18 0.64 0.02

nord1 QUERALBA 7500 0.239 0.18 0.64 0.02

nord1 QUERRUBR 7500 0.239 0.18 0.64 0.02

nord1 PICEGLAU 7500 0.239 0.18 0.64 0.02

nord1 PICEMARI 7500 0.239 0.18 0.64 0.02

nord1 PICEABIE 7500 0.239 0.18 0.64 0.02

nord1 PICERUBE 7500 0.239 0.18 0.64 0.02

nord2 BETUPOPU 7500 0.226 0.18 0.64 0.02

nord2 BETUALLE 7500 0.226 0.18 0.64 0.02

nord2 BETUPAPY 7500 0.226 0.18 0.64 0.02

nord2 PRUNSERO 7500 0.226 0.18 0.64 0.02

nord2 QUERALBA 7500 0.226 0.18 0.64 0.02

nord2 QUERRUBR 7500 0.226 0.18 0.64 0.02

nord2 PICEGLAU 7500 0.226 0.18 0.64 0.02

nord2 PICEMARI 7500 0.226 0.18 0.64 0.02

nord2 PICEABIE 7500 0.226 0.18 0.64 0.02

nord2 PICERUBE 7500 0.226 0.18 0.64 0.02

nord2 BETUPOPU 15000 0.241 0.18 0.64 0.02

nord2 BETUALLE 15000 0.241 0.18 0.64 0.02

nord2 BETUPAPY 15000 0.241 0.18 0.64 0.02

nord2 PRUNSERO 15000 0.241 0.18 0.64 0.02

nord2 QUERALBA 15000 0.241 0.18 0.64 0.02

nord2 QUERRUBR 15000 0.241 0.18 0.64 0.02

nord2 PICEGLAU 15000 0.241 0.18 0.64 0.02

nord2 PICEMARI 15000 0.241 0.18 0.64 0.02

nord2 PICEABIE 15000 0.241 0.18 0.64 0.02