SRL RANGE

WSG RANGE

SLA RANGE

SRL

WSG

SLA

Root diameter

Growth Efficiency Mortality

Optimal C:N ratio

Optimal C:P ratio

Leaf , Root Turnover

AMF colonization

P STRESS

N STRESS

NUTRIENT RESORPTION

Realized C:N ratio

Realized C:P ratio

PRECIPITATION
TEMPERATURE
RADIATION
1,000 m

PRECIPITATION
TEMPERATURE
RADIATION
2,000 m

PRECIPITATION
TEMPERATURE
RADIATION
3,000 m

LEGEND

Element Fluxes

CNP

C

P

N

NP

Random traits

Tradeoff traits

Plasticity traits

DRIVING DATA

PHOTOSYNTHESIS

LEAF : FINE ROOT RATIO

DEPOSITION
P

DEPOSITION
N

LITTER DEPOSITION

NUTRIENT UPTAKE

N FIXATION

SURFACE STRUCTURAL AND METABOLIC POOLS

FINE WOODY DEBRIS

COARSE WOODY DEBRIS

MYCORRHIZA UPTAKE

A_{AMF}

A_{root}

ROOT C MASS

AMF C transfer

ΔC_{AMF}

ROOT UPTAKE

AMF C MASS

RESPIRATION, TURNOVER

SURFACE HUMUS

SURFACE MICROBIAL

SLOW SOIL

SOIL MICROBIAL

SOIL PASSIVE

IMMOBILIZATION/
MINERALIZATION

MINERAL NITROGEN

MINERAL PHOSPHORUS

ORGANIC LAYER

MINERAL LAYER

ORGANIC AND MINERAL LEACHING

SORBED P

STRONGLY SORBED P

OCCLUDED P