Supplementary Figure S5: NMDS of fungal communities, with ordisurf for different variables. A) All fungi b) Em c) saprophytes d) unknown a) All fungi

**All fungi**

- **by Exploratory**
- **by dominant tree species**

Mineral soil Inorganic C
All fungi

by Exploratory

by dominant tree species

Mineral soil Total N

Mineral soil CN ratio
All fungi

by Exploratory

by dominant tree species

Mineral soil pH 1

ForMi
All fungi

by Exploratory

by dominant tree species

Fine Roots Biomass

Root fructose content
All fungi by Exploratory by dominant tree species

Root glucose content

Root C content
All fungi by Exploratory by dominant tree species

Root N content

Root CN ratio
All fungi

Root Al content

Root Ca content

by Exploratory

by dominant tree species
All fungi by Exploratory

Root Na content

Root P content

by dominant tree species
All fungi by Exploratory

Root S content

by dominant tree species
b) EM

EM by Exploratory

EM by dominant tree species

Mineral soil
Inorganic C

Mineral soil
Organic C
EM by Exploratory

by dominant tree species

Mineral soil Total C

Mineral soil Total N
EM by Exploratory

Mineral soil CN ratio

Mineral soil pH 1

by dominant tree species
Coarse Roots Biomass

Fine Roots Biomass
EM by Exploratory

Root C content

Root N content

by dominant tree species
EM by Exploratory

Root CN ratio

Root Al content

by dominant tree species
EM by Exploratory

Root Ca content

Root Fe content
EM by Exploratory

Root Mn content

Root Na content

by dominant tree species
EM by Exploratory

Root P content

Root S content

by dominant tree species
c) Saprophytic

Mineral soil Inorganic C

by Exploratory

by dominant tree species

Mineral soil Organic C
<table>
<thead>
<tr>
<th>Saprophytic</th>
<th>by Exploratory</th>
<th>by dominant tree species</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mineral soil Total C</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mineral soil Total N</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Mineral soil CN ratio

Mineral soil pH 1
Saprophytic by Exploratory by dominant tree species

ForMI

SMI
Saprophytic by Exploratory by dominant tree species

Coarse Roots Biomass

Fine Roots Biomass
Saprophytic by Exploratory by dominant tree species

Root fructose content

Root glucose content
Saprophytic by Exploratory by dominant tree species

Root C content

Root N content
Saprophytic by Exploratory by dominant tree species

Root Ca content

Root Fe content
Saprophytic by Exploratory by dominant tree species

Root K content

Root Mg content
Saprophytic

Root Mn content

Root Na content

by Exploratory

by dominant tree species
<table>
<thead>
<tr>
<th>Saprophytic by Exploratory</th>
<th>by dominant tree species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Root P content</td>
<td></td>
</tr>
<tr>
<td>Root S content</td>
<td></td>
</tr>
</tbody>
</table>
d) unknown fungi by Exploratory

Mineral soil Inorganic C

Mineral soil Organic C

by dominant tree species
Coarse Roots Biomass

Fine Roots Biomass
Root fructose content

Root glucose content
Root CN ratio

Root Al content
Root Ca content

Root Fe content
Root Mn content

Root Na content