Ocean

Inland

(400,000 to 500,000 years old)

Terrace 1

Terrace 2

Terrace 3

Terrace 4

Terrace 5

Geologic Time

C O R P T

Realms

Terraces

Materials

Inland

Ocean

Terrace 1

Terrace 2

Terrace 3

Terrace 4

Terrace 5

Geologic Time
<table>
<thead>
<tr>
<th>Terrace</th>
<th>Distance Inland (km)</th>
<th>Elevation (m)</th>
<th>Estimated Soil age (y)</th>
<th>Rooting depth (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>0.5</td>
<td>22</td>
<td>100,000</td>
<td>&gt; 150</td>
</tr>
<tr>
<td>T2</td>
<td>1.5</td>
<td>61</td>
<td>200,000</td>
<td>90</td>
</tr>
<tr>
<td>T3</td>
<td>3.0</td>
<td>90</td>
<td>~ 240,000</td>
<td>43</td>
</tr>
<tr>
<td>T4</td>
<td>4.0</td>
<td>130</td>
<td>330,000</td>
<td>60</td>
</tr>
<tr>
<td>T5</td>
<td>5.0</td>
<td>160</td>
<td>&gt; 400,000</td>
<td>53</td>
</tr>
</tbody>
</table>

Terrace 1 = inceptisol; terraces 2-5 = ultisols

From Yu et al. 1999
The formation of an impermeable layer or an anoxic layer in soils can alter the structure and function of plant growth.

From Yu et al. 1999
Plants produce chemicals that alter soil characteristics.
There are interactions among plants, pH, podzolization, and soil nutrient characteristics

From Yu et al. 1999
Soil Nitrogen (Mg/ha)

From Yu et al. 1999
From Yu et al. 1999
Carbon and nitrogen are related through

From Yu et al. 1999
Phosphorus changes over geologic time through mineral and biological processes

From Yu et al. 1999
From Yu et al. 1999