Long-Term Trends in Ecological Systems: A Basis for Understanding Responses to Global Change
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(Multiple stations are given if possible. Sites are grouped by ecosystem type. See Appendix 28 for length of record for each station.)

<table>
<thead>
<tr>
<th>Site code</th>
<th>Taxon</th>
<th>Station</th>
<th>Biomass 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Tussock Tundra 1981 Plots,</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARC</td>
<td><em>Betula nana</em> (Dwarf birch)</td>
<td>control</td>
<td>81 (18)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>fertilized</td>
<td>410 (146)</td>
</tr>
<tr>
<td></td>
<td><em>Eriophorum vaginatum</em> (Tussock cottongrass)</td>
<td>control</td>
<td>56 (12)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>fertilized</td>
<td>55 (27)</td>
</tr>
<tr>
<td></td>
<td><em>Ledum palustre</em> (Marsh labrador tea)</td>
<td>control</td>
<td>79 (6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>fertilized</td>
<td>48 (13)</td>
</tr>
<tr>
<td></td>
<td><em>Vaccinium vitis-idaea</em> (Lingonberry)</td>
<td>control</td>
<td>72 (7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>fertilized</td>
<td>23 (12)</td>
</tr>
<tr>
<td>Coastal</td>
<td>Periphyton (algae)</td>
<td>Shark River Slough sites 1, 2, and 3,</td>
<td></td>
</tr>
<tr>
<td>FCE</td>
<td></td>
<td>Epiphyton substrate</td>
<td>9 (3)*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mat substrate</td>
<td>18 (2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Periphyton substrate</td>
<td>8 (2)</td>
</tr>
<tr>
<td>GCE</td>
<td>Plants</td>
<td>High Marsh site</td>
<td>4245 (238)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zone 1, Creek Bank</td>
<td>5984 (972)</td>
</tr>
<tr>
<td>PIE</td>
<td><em>Spartina spp.</em> (Cordgrass)</td>
<td><em>Spartina alterniflora</em>-dominated salt marsh at Goat Island, North Inlet, Georgetown, SC</td>
<td>547 (46)*</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Spartina alterniflora</em>-dominated salt marsh at Law’s Point, Rowley River, PIE, MA</td>
<td>560 (69)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Spartina patens</em>-dominated salt marsh at Law’s Point, Rowley River, PIE, MA</td>
<td>1023 (87)</td>
</tr>
<tr>
<td>SBC</td>
<td><em>Macrocystis pyrifera</em> (Kelp)</td>
<td>Arroyo Burro Reef, Santa Barbara Channel</td>
<td>185 (123)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arroyo Quemado Reef, Santa Barbara Channel</td>
<td>508 (90)</td>
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<tr>
<td></td>
<td></td>
<td>Mohawk Reef, Santa Barbara Channel</td>
<td>530 (134)</td>
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<tr>
<td>VCR</td>
<td>Plants</td>
<td>Randomly selected, destructively sampled, non-treated plots at Frank Day Well Location R2, Hog Island</td>
<td>112 (15)</td>
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<td></td>
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<td>Frank Day Well Location R3, Hog Island</td>
<td>141 (27)</td>
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<td></td>
<td></td>
<td>Frank Day Well Location R4, Hog Island</td>
<td>139 (16)</td>
</tr>
<tr>
<td>Eastern forests</td>
<td>Plants (kg/625 m²)</td>
<td>Vegetation zone 1 at watershed 6</td>
<td>110 (15)</td>
</tr>
<tr>
<td>HBR</td>
<td></td>
<td>Vegetation zone 4 at watershed 6</td>
<td>258 (29)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vegetation zone 5 at watershed 6</td>
<td>338 (37)</td>
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<td></td>
<td>Vegetation zones 2 and 3 at watershed 6</td>
<td>172 (20)</td>
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<tr>
<td>NTL</td>
<td>Aquatic plants</td>
<td>Trout Lake</td>
<td>39 (5)</td>
</tr>
</tbody>
</table>
Appendix 19. Average (standard error) biomass of primary producers (plants, algae) for sites with data—Continued

<table>
<thead>
<tr>
<th>Site code</th>
<th>Taxon</th>
<th>Station</th>
<th>Biomass¹</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Temperate grasslands and savannas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CDR</td>
<td>Plants</td>
<td>Old Fields 24, 4, 41, 28</td>
<td>118 (7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Old Fields 72, 35, 45, 5</td>
<td>130 (8)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Old Fields 77, 70, 26, 53</td>
<td>134 (9)</td>
</tr>
<tr>
<td>SPR</td>
<td>Forbs</td>
<td>Watershed 1</td>
<td>76 (7)</td>
</tr>
<tr>
<td></td>
<td>Grass</td>
<td>Watershed 1</td>
<td>172 (17)</td>
</tr>
<tr>
<td></td>
<td>Western forests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AND</td>
<td>Tree boles (kg/m²)</td>
<td>Reference Stand 2</td>
<td>62 (6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reference Stand 29</td>
<td>106 (3)</td>
</tr>
</tbody>
</table>

¹ The unit is g/m² if not specified.
* Linear regression of the variable against time is significant (p < 0.05) and the trend appears linear.