

## ChEAS MICROMETEOROLOGICAL STATIONS

| MEASUREMENTS   |                        |     |   |                                 |  |
|--|------------------------|-----|---|---------------------------------|--|
| LOCATION   | Air T/RH<br>Wind speed | PAR | Tree stem T<br>Soil T/moisture <sup>1</sup> | Water depth <sup>2</sup>        | Additional   |
| Deciduous upland - Hardwood<br>(Willow Creek flux tower) | √                      | √   | √   |                                 | CO <sub>2</sub> /H <sub>2</sub> O flux<br>Atmospheric pressure<br>Soil heat flux<br>Radiation (total, IR)<br>PAR (dir/diff, profile)<br>Air T/RH profile<br>Wind speed/dir profile |
| Deciduous upland - Aspen                                 | √                      | √   | √   |                                 | Precipitation  |
| Mixed upland   | √                      | √   | √   |                                 | Wind direction<br>Snow depth<br>Surface soil moisture<br>on N and S slopes   |
| Coniferous upland – Red pine                             | √                      | √   | √   | √<br>(adjacent stream, wetland) | Air T above wetland  |
| Ericaceous wetland - Alder                               | √                      | √   | √<br>(no soil moisture)                     | √                               |  |
| Alder/Willow wetland<br>(Lost Creek flux tower)          | √                      | √   | √<br>(no soil moisture)                     | √                               | CO <sub>2</sub> /H <sub>2</sub> O flux<br>Wind direction<br>Soil heat flux<br>Radiation (net, solar)<br>Precipitation<br>Air T profile   |

<sup>1</sup> Temperature measured at surface, and both temperature and humidity measured at 5, 10, 20, 50, and 100 cm below surface.

<sup>2</sup> Water level measured with submerged pressure transducer.