

Energy balance and evapotranspiration

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Summary

Funds are sought to purchase humidity, net radiation and soil heat flux sensors for installation at the Cascade Brook research watershed in the nearby Black Rock forest. The instruments will be used to calculate Penman-Monteith evaporation rates in an investigation into the topographic controls on plant water status and leaf level gas exchange via soil moisture availability and local energy balance. The results will have implications for water, energy, and trace gas fluxes in forested systems.