



Figure 1. (A) Total mycorrhizal hyphal length (mm) per 1.2 mm² of soil observed from an automated minirhizotron (AMR) in a mixed conifer forest (James Reserve, Idyllwild, California) from February through June 2009. (B) Total mycorrhizal hyphal growth (mm, positive values) and mortality (mm, negative values) per 1.2 mm² of soil observed from same AMR. Error bars represent one standard deviation. Mycorrhizal fungi data were derived from four windows (n=4) with dimensions 3.01 x 2.26 mm. Changes in hyphal length were quantified using Rootfly, a root analysis software (Clemson University, SC). (C) Soil temperature ($^{\circ}C$, 8 cm depth) and soil water content ($m^3 m^{-3}$) were measured using a HOBO[®] Weather Station 12-bit Temperature Smart Sensor and a HOBO[®] Weather S-SMA Station Soil Moisture Smart Sensor, respectively. Data were recorded every five minutes with a HOBO[®] Weather Station Data Logger.