Winter Soil C flux experiment

Winter Ecology, CU Mountain Research Stn

Observers: _____

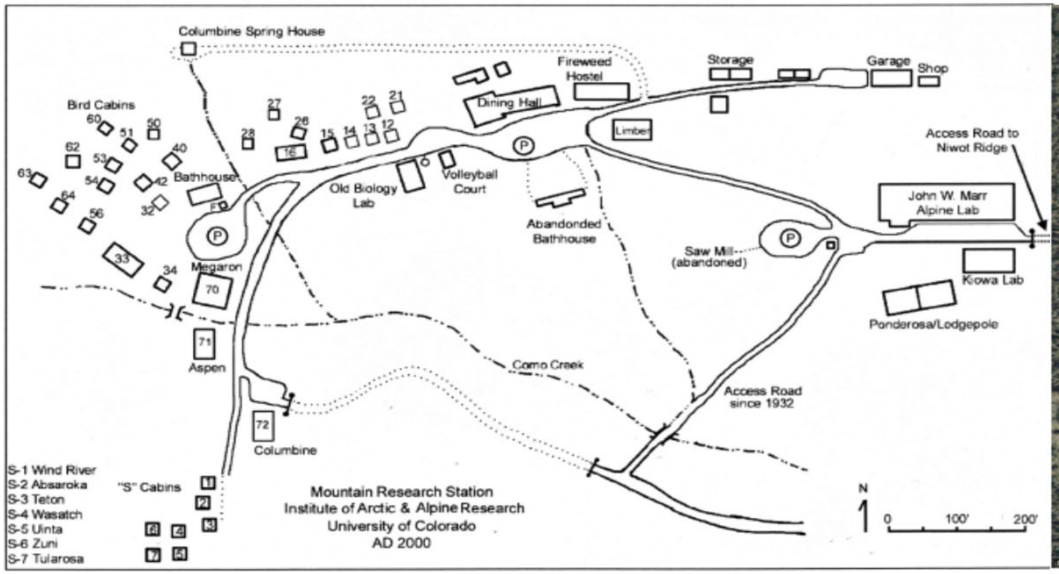
Date: _____ **Weather conditions:** _____

Time - start: _____ **end:** _____

site ID	Site features (vegetation type open/closed)	Snow Z (cm)	soil T (ºC)		Moisture (dry, frozen, moderate=moist to touch, high, saturated)	Organic matter		CO_2 flux (ppm CO2 ·78cm-2 ·s-1)					
			0 cm	10 cm (only if not frozen hard)		amt (depth, cm)	type (herbaceous, brdlf-decid, conifer,)	sample 1	sample 2	sample 3	mean flux (to 3 decimal places)	±SE (to 3 decimal places)	mean R^2 (2 decimal places)
1													
2													
3													
4													
5													

T.Kittel d15,219

Mark site locations on Map:



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Site ID: _____
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sample 1		2		3	
time (sec)	[CO2]	time	[CO2]	time	[CO2]

sample 1		2		3	
slope	R2	slope	R2	slope	R2

Plot the data. Select data for the regression analysis starting when it's clear the chamber is well sealed. Determine the slope and R^2 using Excel's Regression tool in the **Analysis ToolPak**, an Excel Add-in.

If you don't have this installed, go to File: Options: Add-ins: select "Analysis ToolPak" and Go or search Help for "Analysis ToolPak"

Slope		R2
Mean	SE	Mean

Calculate the mean slope and its Standard Error (SE), and the mean R^2. Enter on page 1
To calculate the SE, first calculate the variance from the 3 slopes
SE = SQRT(VAR(data)/n)