Ecosystems and the Carbon Cycle: Summary Table

		Site 1		Site 2		Site 3		Site 4		Site 5	
		U	C	U	C	U	C	U	C	U	C
Carbon Flux	Time										
	δ CO_2 (ppm)										
	Net CO_2 Flux ($gCO_2\ m^{-2}\ h^{-1}$)										
	Average Air Temp (°C)										
	Average Humidity (%)										
Topography	Grid Reference										
	Elevation (m)										
	Aspect (°)										
	Slope Angle (°)										
Soil	Soil Temp (°C)										
	Soil pH										
	O Horizon Depth (cm)										
	O Horizon Colour										
	O Horizon Moisture										
Climate	Wind Speed (ms^{-1})										
	Cloud Cover (oktas)										
	Illuminance (lx)										
	Exposure (total)										

U = uncovered C = covered

Name: _____

Date: _____

Ecosystems and the Carbon Cycle: Summary Table

		Site 6		Site 7		Site 8		Site 9		Site 10	
		U	C	U	C	U	C	U	C	U	C
Carbon Flux	Time										
	δ CO_2 (ppm)										
	Net CO_2 Flux ($gCO_2\,m^{-2}\,h^{-1}$)										
	Average Air Temp (°C)										
	Average Humidity (%)										
Topography	Grid Reference										
	Elevation (m)										
	Aspect (°)										
	Slope Angle (°)										
Soil	Soil Temp (°C)										
	Soil pH										
	O Horizon Depth (cm)										
	O Horizon Colour										
	O Horizon Moisture										
Climate	Wind Speed (ms^{-1})										
	Cloud Cover (oktas)										
	Illuminance (lx)										
	Exposure (total)										

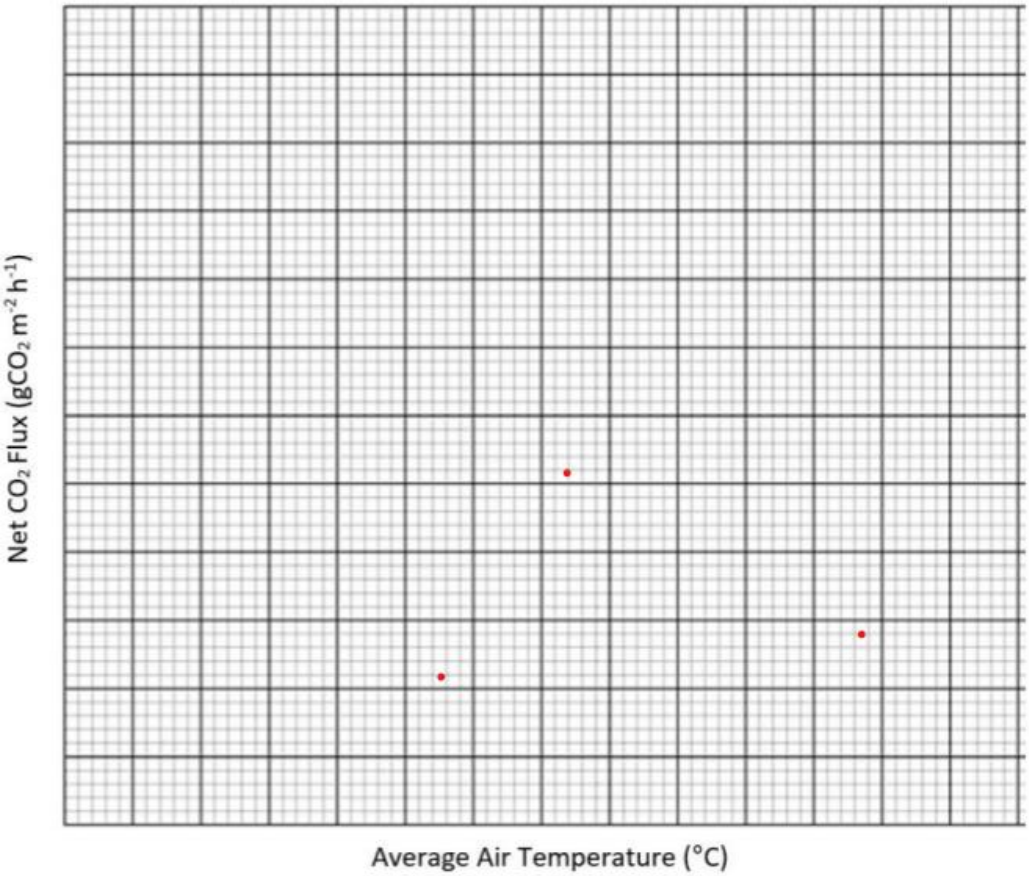
U = uncovered C = covered

Name: _____

Date: _____

Ecosystems and the Carbon Cycle: Follow up

Scattergraph for CO_2 flux versus air temperature



1. Describe any relationship between average air temperature and CO_2 flux for the covered box. Explain what might be happening to relative rates of photosynthesis and respiration to cause this.

2. Describe any relationship between average air temperature and CO_2 flux for the uncovered box. Explain what might be happening to relative rates of photosynthesis and respiration to cause this.

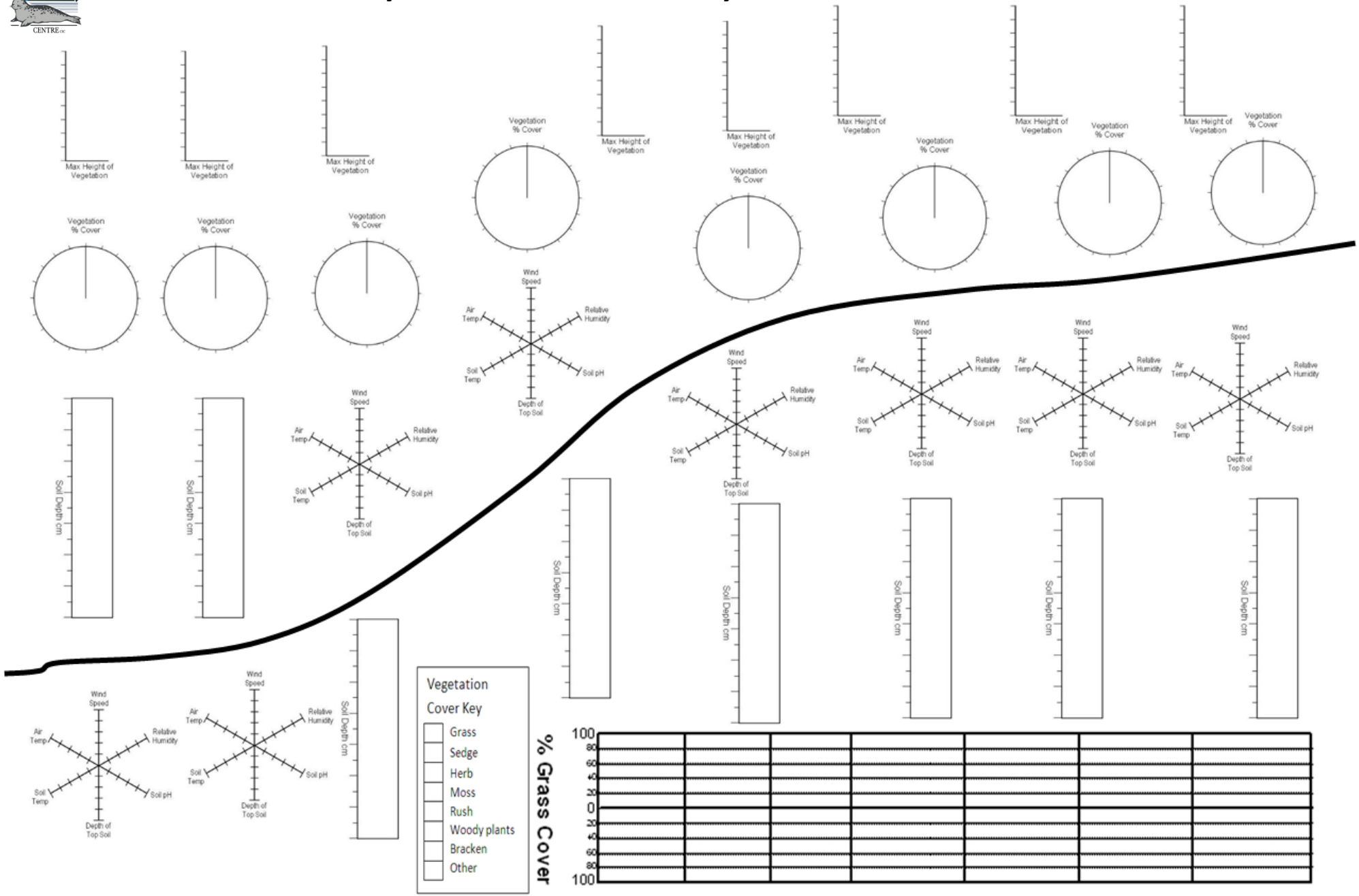
3. Based on these and the long term data set which, if either, hypothesis can we accept?

4. What other factors could be influencing the results?

Name: _____

Date: _____

Ecosystems and the Carbon Cycle: Located Data



Name: _____

Date: _____