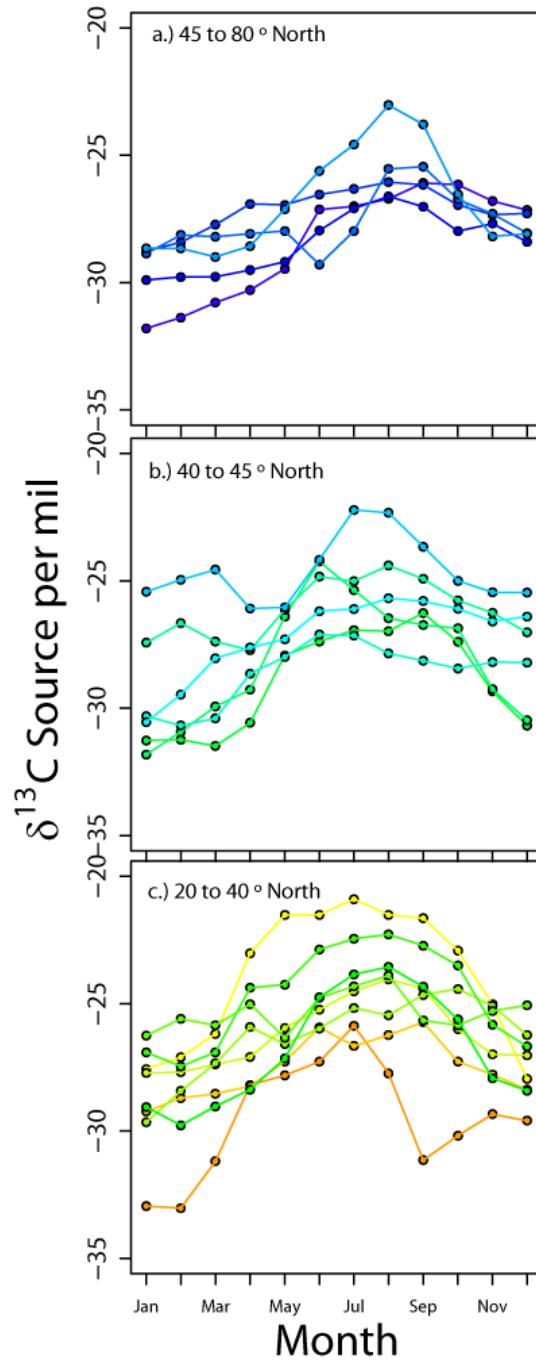


## Supplemental Figure



Supplemental Figure 1. Seasonal source values of  $\delta^{13}\text{CO}_2$  to the atmosphere grouped by latitude. Sites from  $45$  to  $80^{\circ}\text{N}$  (a.),  $40$  to  $45^{\circ}\text{N}$  (b.), and  $20$  to  $40^{\circ}\text{N}$  (c.) showing the differences in seasonal patterns of source  $\delta^{13}\text{CO}_2$  to the atmosphere. Sites are color-coded to correspond with points appearing in Fig. 2A. These are the actual values used to calculate the seasonal anomalies reported in Fig. 2B.