

Profile	Sampling date	Depth (cm)	$\delta^{13}\text{C}_{\text{CO}_2}$ (‰)	$^{14}\text{C}$ analysis year	$^{14}\text{C}$ sample size (mg C)	$F^{14}\text{C}$	$\Delta^{14}\text{C}_{\text{CO}_2}$ (‰)	Mean age of respired C (years)
HC1-center	8/2012	31	–	2013	0.044	0.7464	$-259.2 \pm 7.5$	3050
HC1-center	9/2013	20	$-23.7$	2013	0.94	0.7270	$-278.6 \pm 2.6$	3350
HC3-center	8/2012	10	$-20.1$	2013	0.29	0.9473	$-59.9 \pm 3.0$	770
	8/2012	20	–	2013	0.37	0.8864	$-120.3 \pm 3.2$	1320
	8/2012	29	$-21.7$	2013	0.46	0.8944	$-112.4 \pm 2.7$	1240
HC3-center	7/2013	10	–	2013	0.12	0.9037	$-101.3 \pm 4.4$	1150
	7/2013	20	–	2013	0.14	0.7382	$-267.4 \pm 2.6$	3170
HC3-trough	7/2013	10	–	2013	0.19	0.7898	$-216.2 \pm 3.3$	2440
	7/2013	20	$-23.7$	2013	0.83	0.8447	$-161.7 \pm 2.4$	1760
FC2-center	8/2012	10	$-24.8$	2013	1.44	0.9509	$-56.3 \pm 2.8$	740
	8/2012	20	$-24.9$	2013	1.35	0.9729	$-34.5 \pm 2.9$	580
FC4-center	7/2013	20	$-24.8$	2013	0.99	0.8034	$-202.7 \pm 2.1$	2260
LC3-trough	7/2013	10	$-24.7$	2013	0.72	1.0005	$-7.1 \pm 3.9$	410
	7/2013	20	–	2013	0.16	0.8755	$-131.2 \pm 3.7$	1430