

**Supplemental table for “Tree-Ring  $^{14}\text{C}$  Links Seismic Swarm to CO<sub>2</sub> Spike at Yellowstone”**

TABLE DR1.  $\delta^{13}\text{C}$ , NORMALIZED  $^{14}\text{C}$  ( $\pm 1\sigma$ ), AND CO<sub>2</sub> CONCENTRATIONS  
 (BGT: 523386mE 4921712mN; CHS-C: 544981mE 4941263mN; CHS-M: 544982mE 4941282mN)

Ring year	$^{14}\text{C}$ -BGT (fraction modern)	$\delta^{13}\text{C}$ (‰-PDB)	$^{14}\text{C}$ -CHS-C (fraction modern)	$\delta^{13}\text{C}$ (‰-PDB)	$\text{C}_{\text{amb}}^*$ (ppm)	$\text{C}_{\text{mag}}$ (ppm)
2005 <sup>†</sup>	1.0656±0.0041	-25	0.9691±0.0038	-25	380.9	37.9
2000	1.0907±0.0053	-22.9	0.9858±0.0048	-22.8	370.4	39.4
1998	1.1147±0.0037	-24.0	N.D.	N.D.	367.9	N.D.
1995	1.1203±0.0055	-23.7	1.0307±0.0043	-23.2	362.1	31.5
1994	1.1321±0.0036	-23.9	N.D.	N.D.	359.9	N.D.
1992	1.1422±0.0036	-24.0	N.D.	N.D.	357.7	N.D.
1990	1.1639±0.0055	-23.8	1.0636±0.0034	-24.2	355.3	33.5
1988	1.1899±0.0038	-23.1	N.D.	N.D.	352.7	N.D.
1987	1.1927±0.0038	-24.2	1.0707±0.0045	-24.8	350.2	39.9
1986	1.2033±0.0038	-23.8	N.D.	N.D.	348.4	N.D.
1985	1.2119±0.0059	-23.4	N.D.	N.D.	347.1	N.D.
1984	1.2231±0.0060	-23.8	N.D.	N.D.	345.7	N.D.
1983	1.2452±0.0054	-23.8	N.D.	N.D.	344.4	N.D.
1982	1.2575±0.0040	-23.3	N.D.	N.D.	342.3	N.D.
1980	1.3043±0.0041	-23.2	1.0837±0.0040	-24.2	339.9	69.2
1979	1.3301±0.0046	-22.6	0.9714±0.0027	-23.2	338.1	124.8
1978	1.3497±0.0038	-23.2	1.2132±0.0036	-24.7	336.8	37.9
1977	1.3523±0.0038	-22.9	1.2660±0.0040	-24.6	335.2	22.8
1976	1.3750±0.0039	-22.9	1.2885±0.0043	-24.4	333.3	22.4
1974	1.4286±0.0041	-22.9	1.3223±0.0037	-24.4	331.4	26.6
1972	1.4875±0.0042	-23.4	1.4012±0.0040	-24.4	328.4	20.2
1970	1.5267±0.0068	-23.0	1.4305±0.0065	-24.6	326.7	22.0
1927 <sup>§</sup>	0.9816	N.D.	0.8634±0.0024	-22.8	305.8	41.9

\*Average of May–August monthly values from the Mauna Loa atmospheric record of Keeling et al. (2009).

<sup>†</sup>Assumed  $\delta^{13}\text{C}$  values. The normalized  $^{14}\text{C}$ -CHS-M value in the 2005 ring is 0.9603±0.0031 with  $\delta^{13}\text{C}$  of -26.8‰.

<sup>§</sup>1927 background  $^{14}\text{C}$  and  $\text{C}_{\text{amb}}$  values from Reimer et al. (2009) and Etheridge et al. (2009), respectively.

## References

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