

S Table 1. Mean and (standard deviation) of C and N isotopic data from gills, muscle (siphon and mantle) and wood-storing cecum of *X. dorsalis* and wood.

Tissue or wood	$\delta^{13}\text{C}$	$\delta^{15}\text{N}$	C/N
Siphon/mantle n =3	-22 (.2)	6.1 (0.3)	3 (0.1)
Gills n =2	-21.7 (0.1)	4.3 (0.3)	3.3 (0.2)
Cecum n =2	-24.4 (0.4)	5.1 (0.02)	6.6 (1.0)
Wood n = 4	-28.1 (0.4)	-1.3 (1.7)	28.9 (13.7)

Supplemental table 2. Data from *Xylophaga zierenbergi* collected from Monterey Canyon at 3100 m depth after 24 month deployment except as noted.

Wood type	n	$\delta^{13}\text{C}$ mean (std dev)	$\delta^{15}\text{N}$ mean (std dev)	C/N
Ginkgo	9	-23.8 (1.7)	-0.72 (0.7)	3.88 (0.2)
Ironwood	3	-22.59 (1.1)	-0.04 (0.4)	4.2 (0.4)
Bark-covered Pine	7	-25.8 (0.95)	1.57 (0.6)	3.96 (0.2)
Spicebush	11	-23.8 (0.95)	-0.30 (1)	3.8 (0.4)
Bark-covered Oak	10	-25.7 (0.6)	-0.31 (0.7)	3.75 (0.2)
Fir ENDEAVOUR 2211 m deep	2	-23.0 (0.18)	-0.3 (0.09)	3.88 (0.29)

S Table 3. Fecal Chimney data for *Xylophaga dorsalis* and *X. oregona*

taxon	Tissue $\delta^{13}\text{C}$ mean (std dev) n	Tissue $\delta^{15}\text{N}$ mean (std dev) n	Tissue C/N mean (Std dev) n	wood $\delta^{13}\text{C}$ mean (std dev) n	Wood $\delta^{15}\text{N}$ mean (std dev) n	Wood C/N mean (Std dev) n	Chimney $\delta^{13}\text{C}$ mean (std dev) n	Chimney $\delta^{15}\text{N}$ mean (std dev) n	Chimney C/N mean (Std dev) n
<i>Xylophaga dorsalis</i>	-21.8 (0.03) 2	6.3 (0.2) 2	3.7 (0.11)	-28.1 (0.4) 5	-1.3 (1.7) 4	28.9 (14) 4	-26.9 (1.1) 8	-0.5 (1.5) 8	29.3 (36) 8
<i>X. oregona</i>	-22.4 (0.2) 3	1.5 (1.6) 3	4.3 (0.03) 3	-24.3 (0.20) 3	0.1 (0.9) 3	863.9 (667) 3	-25.5 (0.6) 5	0.09 (1.0) 5	83.4 (11) 5