

SUPPLEMENTARY DATA 1—Contents of all detected fatty acids (given in ng lipid / g rock) and their compound-specific carbon isotopic values. d lam = distinctly laminated, f lam = faintly laminated, dend = dendritic, sed = sediment, tr = trace amounts, n.d. = not detected, n.m. = not measurable, * = minor co-elution with other minor unsaturated fatty acids.

Compounds (fatty acids)	Site				Mara'a											
	Tiarei				TAH 11		TAH 12		TAH 13		TAH 14		TAH 19		TAH 9	
	Sample Type of sample	TAH 10 dend	TAH 15 d lam	$\delta^{13}\text{C}$ (‰)	f lam	f lam	f lam	f lam	f lam	d lam	d lam	d lam	sed	$\delta^{13}\text{C}$ (‰)	$\delta^{13}\text{C}$ (‰)	
C _{14:0}		39.8	66.1	-21	6.0	8.3	71.8	58.4	-20	58.4	-20	n.d.	n.m.	983.2	-24	
iso-C _{15:0}		62.6	135.6	-18	18.0	22.1	112.8	97.8	-17	97.8	-18	16.5	n.m.	226.2	-20	
anteiso-C _{15:0}		24.2	53.4	-22	9.2	10.0	52.7	46.4	-22	46.4	-21	4.4	n.m.	173.9	-23	
C _{15:0}		26.0	32.0	n.m.	tr	n.m.	tr	n.m.	38.4	-18	44.7	-16	0.6	n.m.	489.6	-23
iso-C _{16:0}		31.0	60.3	-17	10.4	12.9	52.1	54.4	-17	54.4	-19	9.6	n.m.	77.4	-21	
C _{16:0}		241.3	329.1	-22	72.8	97.6	464.4	299.5	-21	299.5	-21	133.8	-21	4401.5	-22	
10-Me-C _{16:0}		n.d.	32.6	n.m.	n.d.	n.m.	n.d.	n.m.	38.3	-18	33.6	-17	6.7	n.m.	23.6	n.m.
iso-C _{17:0}		53.8	100.8	-18	18.6	23.1	83.7	72.9	-17	72.9	-18	29.6	n.m.	115.8	-18	
anteiso-C _{17:0}		22.1	48.8	-19	12.1	12.6	48.0	44.2	-20	44.2	-19	10.5	n.m.	70.8	n.m.	
C _{17:0}		29.1	42.2	-18	tr	n.m.	9.2	42.6	-16	33.0	-16	17.1	n.m.	192.2	-20	
iso-C _{18:0}		8.4	13.3	n.m.	n.d.	n.m.	6.8	n.m.	n.d.	n.m.	18.5	n.m.	5.8	n.m.	n.d.	n.m.
C _{18:1ω7} *		49.2	28.9	n.m.	3.9	n.m.	tr	n.m.	tr	n.m.	tr	n.m.	33.6	-20	950.1	-26
C _{18:1ω9} *		23.0	24.2	n.m.	tr	n.m.	13.8	n.m.	tr	n.m.	47.3	n.m.	42.1	n.m.	tr	n.m.
C _{18:0}		132.9	159.1	-22	33.0	53.2	196.6	140.2	-22	140.2	-21	102.4	-20	2179.0	-21	
iso-C _{19:0}		9.4	14.4	n.m.	n.d.	n.m.	n.d.	n.m.	n.d.	n.m.	12.7	n.m.	11.7	n.m.	24.5	n.m.
anteiso-C _{19:0}		5.3	7.1	n.m.	n.d.	n.m.	n.d.	n.m.	n.d.	n.m.	9.2	n.m.	3.3	n.m.	21.2	n.m.
C _{19:0}		13.9	13.9	n.m.	tr	n.m.	tr	n.m.	tr	n.m.	28.8	n.m.	8.2	n.m.	41.2	n.m.
C _{20:0}		58.0	65.5	-20	6.7	12.3	63.3	67.5	-19	67.5	-20	48.4	-22	135.8	-20	
C _{21:0}		14.7	12.4	n.m.	tr	n.m.	tr	n.m.	tr	n.m.	20.4	-20	8.6	n.m.	35.5	n.m.
C _{22:0}		49.5	52.4	-21	5.6	10.3	87.9	58.4	-20	58.4	-19	53.1	-21	148.6	-20	
C _{23:0}		17.6	17.2	-21	tr	n.m.	tr	n.m.	tr	n.m.	16.8	-20	12.1	n.m.	60.9	-22
C _{24:0}		51.5	65.3	-22	4.6	9.8	100.9	75.5	-20	75.5	-20	36.5	-21	191.1	-21	
C _{25:0}		10.4	12.3	-24	tr	n.m.	tr	n.m.	tr	n.m.	18.9	-20	5.9	n.m.	34.9	n.m.
C _{26:0}		24.8	36.9	-22	3.0	5.4	69.2	49.3	-20	49.3	-21	16.6	n.m.	100.3	-21	
C _{27:0}		4.2	6.3	n.m.	tr	n.m.	tr	n.m.	tr	n.m.	10.1	n.m.	1.8	n.m.	15.7	n.m.
C _{28:0}		10.6	15.3	-27	tr	n.m.	tr	n.m.	tr	n.m.	20.9	-24	6.6	n.m.	36.4	n.m.
C _{29:0}		3.2	3.9	n.m.	tr	n.m.	tr	n.m.	tr	n.m.	11.1	n.m.	1.2	n.m.	12.6	n.m.
C _{30:0}		7.0	9.0	n.m.	3.6	9.9	24.8	14.9	n.m.	14.9	n.m.	1.6	-20	17.7	n.m.	
SUM (ng lipid/ g rock)		1023.5	1458.4		207.5	317.3	1547.5	1405.3		628.5		10759.8				