SUPPLEMENTARY DATA 3—Calculated lipid- and group-specific proportions (given in wt%) and their mean compound-specific carbon isotopic values. The sulfate-reducer lipids are included in the group of overall bacterial lipids, but are also separately highlighted in the lowermost box. d lam = distinctly laminated, f lam = faintly laminated, dend = dendritic, sed = sediment, sat. = saturated, FA = fatty acids, MAGE = mono-*O*-alkyl glycerol ethers, tr = trace amounts, n.d. = not detected, n.m. = not measurable.

Site	**Tiarei**				**Mara'a**											
Sample	TAH 10		TAH 15		TAH 11		TAH 12		TAH 13		TAH 14		TAH 19		TAH 9	
Type of sample	dend		d lam		f lam		f lam		f lam		d lam		d lam		sed	
Compounds	wt. %	$\delta^{13}C$ (‰)	wt. %	$\delta^{13}C$ (‰)	wt. %	$\delta^{13}C$ (‰)	wt. %	$\delta^{13}C$ (‰)	wt. %	$\delta^{13}C$ (‰)	wt. %	$\delta^{13}C$ (‰)	wt. %	$\delta^{13}C$ (‰)	wt. %	$\delta^{13}C$ (‰)
short-chain sat. FAs $C_{14\text{-}19}$	29	*-20*	31	*-20*	35	*-20*	49	*-19*	49	*-19*	33	*-19*	33	*-20*	47	*-22*
$C_{18:1\omega7}$, $C_{18:1\omega9}$	4	*n.m.*	3	*n.m.*	1	*n.m.*	4	*n.m.*	n.d	*n.m.*	3	*n.m.*	10	*-20*	5	*n.m.*
Brassicasterol, Dinosterol	2	*-21*	3	*-22*	5	*n.m.*	2	*n.m.*	2	*-20*	3	*-22*	6	*n.m.*	1	*-21*
SUM, putative source: marine organisms	**36**		**37**		**41**		**55**		**51**		**39**		**49**		**54**	
long-chain *n*-FAs $C_{20\text{-}30}$	17	*-22*	17	*-22*	8	*n.m.*	14	*-20*	21	*-20*	23	*-23*	31	*-21*	5	*-21*
long-chain *n*-alcohols $C_{20\text{-}28}$	14	*-29*	8	*-26*	7	*n.m.*	1	*n.m.*	1	*n.m.*	5	*-24*	2	*n.m.*	15	*-26*
SUM, putative source: higher land plants	**31**		**25**		**15**		**15**		**22**		**28**		**33**		**20**	
iso/ai FAs $C_{15\text{-}19}$	13	*-19*	21	*-19*	21	*-19*	26	*-19*	21	*-19*	19	*-19*	11	*n.m.*	4	*-22*
iso-FAs $C_{15\text{-}19}$	10	*-18*	16	*-19*	14	*-17*	19	*-17*	15	*-17*	14	*-18*	9	*n.m.*	3	*-20*
anteiso-FAs $C_{15\text{-}19}$	3	*-21*	5	*-19*	7	*-21*	7	*-21*	6	*-21*	5	*-20*	2	*n.m.*	1	*-23*
10-Me-$C_{16:0}$ FA	n.d.	*n.m.*	2	*-17*	n.d.	*n.m.*	n.d.	*n.m.*	2	*-18*	2	*-17*	1	*n.m.*	n.d.	*n.m.*
MAGEs	3	*-23*	6	*-17*	10	*n.m.*	1	*n.m.*	n.d.	*n.m.*	4	*-18*	*n.m.*	*n.m.*	1	*-25*
Bishomohopanol	3	*-21*	5	*-21*	7	*-21*	3	-22	2	*-20*	5	*-21*	5	*n.m.*	1	*-22*
SUM, putative source: bacteria	**19**		**33**		**39**		**30**		**25**		**31**		**17**		**6**	
Others (lipids without specification)	14		5		5		0		2		2		1		20	
iso/ai FAs $C_{15\ \&\ 17}$	10	*-19*	16	*-19*	18	*-19*	20	*-19*	18	*-19*	14	*-19*	8	*n.m.*	3	*-22*
iso-FAs $C_{15\ \&\ 17}$	7	*-18*	11	*-19*	11	*-17*	13	*-17*	12	*-17*	9	*-18*	6	*n.m.*	2	*-20*
anteiso-FAs $C_{15\ \&\ 17}$	3	*-21*	5	*-19*	7	*-21*	7	*-21*	6	*-21*	5	*-20*	2	*n.m.*	1	*-23*
10-Me-$C_{16:0}$ FA	n.d.	*n.m.*	2	*-17*	n.d.	*n.m.*	n.d.	*n.m.*	2	*-18*	2	*-17*	1	*n.m.*	n.d.	*n.m.*
MAGEs	3	*-23*	6	*-17*	10	*n.m.*	1		n.d.	*n.m.*	4	*-18*	n.d.	*n.m.*	1	*-25*
SUM, putative source: sulfate-reducing bacteria	**13**		**24**		**28**		**21**		**20**		**20**		**9**		**4**	