

Table S4. Stable carbon-isotope data ($\delta^{13}\text{C}$) of modern chenopod samples. $\delta^{13}\text{C}$ values have been converted into corresponding tooth enamel $\delta^{13}\text{C}$ values using an enamel-diet enrichment factor ($\epsilon_{\text{e-d}}$) of 13.3‰ (see Table S3). $\delta^{13}\text{C}$ values in the last column have been corrected by +1.5‰ for the effects of fossil fuel burning over the past century.

Sample No.	Latitude (°S)	Longitude (°E)	Climate Zone	Species	$\delta^{13}\text{C}$ organic (‰ PDB)	$\delta^{13}\text{C}$ enamel equivalent (‰ PDB)
2001.9.22-34	22.0	133.5	Arid	cf. <i>Rhagodia</i> sp.	-23.4	-10.4
2001.9.21-27	28.0	134.1	Arid	cf. <i>Rhagodia</i> sp.	-24.5	-11.5
2001.9.21-18	28.8	134.5	Arid	<i>Atriplex</i> sp. indet.	-14.2	-1.0
2001.9.21-11	28.8	134.5	Arid	cf. <i>Rhagodia</i> sp.	-24.5	-11.6
2001.9.21-14	28.8	134.5	Arid	cf. <i>Rhagodia</i> sp.	-24.7	-11.7
2001.9.21-13	28.8	134.5	Arid	cf. <i>Rhagodia</i> sp.	-24.0	-11.0
2001.9.21-6	28.8	134.6	Arid	cf. <i>Rhagodia</i> sp.	-24.9	-12.0
2001.9.21-5	28.8	134.6	Arid	<i>Atriplex</i> sp. indet.	-14.3	-1.1
2001.9.20-72	30.1	135.2	Arid	<i>Maireana sedifolia</i>	-23.6	-10.6
2001.9.20-49	30.7	135.5	Arid	<i>Maireana sedifolia</i>	-24.5	-11.5
2003.8.19-19(N)	31	131	Arid	<i>Maireana sedifolia</i>	-25.0	-12.1
2005.10.15-13	31.6	143.4	Arid	<i>Atriplex nummularia</i>	-14.7	-1.6
2003.4.30-20	31.6	128.8	Arid	<i>Maireana sedifolia</i>	-26.9	-14.0
2003.4.30-37	31.6	128.6	Arid	<i>Atriplex</i> sp. indet.	-13.9	-0.8
2003.4.30-38	31.6	128.6	Arid	<i>Atriplex</i> sp. indet.	-14.4	-1.3
2005.10.13-17	31.7	141.6	Arid	<i>Atriplex</i> sp. indet.	-14.1	-1.0
2005.10.13-18	31.7	141.6	Arid	<i>Atriplex</i> sp. indet.	-12.5	0.7
2005.10.15-4	31.9	141.9	Arid	<i>Atriplex</i> sp. indet.	-14.2	-1.1
2005.10.15-2	31.9	141.8	Arid	<i>Atriplex</i> sp. indet.	-14.0	-0.9
2005.10.13-3	31.9	141.6	Arid	cf. <i>Rhagodia</i> sp.	-22.5	-9.5
2005.10.13-10	31.9	141.6	Arid	cf. <i>Rhagodia</i> sp.	-25.5	-12.5
2005.10.13-6	31.9	141.6	Arid	<i>Atriplex</i> sp. indet.	-13.7	-0.5
2005.10.13-7	31.9	141.6	Arid	<i>Atriplex</i> sp. indet.	-14.7	-1.6
2005.10.12-2	32.2	142.1	Arid	<i>Atriplex</i> sp. indet.	-13.4	-0.3
2005.10.11-2	32.2	140.5	Arid	<i>Atriplex</i> sp. indet.	-13.7	-0.6
2003.2.13-15	32.3	135.3	Arid	<i>Maireana sedifolia</i>	-23.9	-10.9
2003.2.13-14	32.3	135.3	Arid	<i>Atriplex</i> sp. indet.	-14.1	-1.0
2003.2.2-14	32.4	123.7	Arid	<i>Atriplex</i> sp. indet.	-14.9	-1.7
2003.2.2-15	32.4	123.7	Arid	cf. <i>Rhagodia</i> sp.	-25.7	-12.7
2003.2.1-1	32.7	121.5	Arid	cf. <i>Rhagodia</i> sp.	-25.2	-12.2
2003.2.16-1	33.9	138.2	Tw	<i>Atriplex</i> sp. indet.	-15.2	-2.1
2003.2.22-12	34.4	139.5	Arid	<i>Atriplex vesicaria</i> (?)	-15.0	-1.9

2003.9.23-25	34.4	139.5	Arid	<i>Maireana sedifolia</i>	-25.1	-12.1
2003.9.23-32	34.4	139.5	Arid	<i>Atriplex</i> sp. indet.	-15.5	-2.4
2003.2.23-30	34.4	139.5	Arid	<i>Maireana sedifolia</i>	-24.3	-11.3
A. 2008.8.13.6	34.2	140.8	Tw	<i>Atriplex lindleyi</i>	-14.2	-1.1
A. 2008.8.15.2	36.8	139.9	Tw	<i>Atriplex cinerea</i>	-14.5	-1.4
A. 2008.8.13.15	34.1	141.1	Tw	<i>Atriplex vesicaria</i>	-14.7	-1.6
A. 2008.8.15.5	36.1	139.7	Tw	<i>Atriplex paludosa</i>	-15.0	-1.9
A. 2008.8.14.5	35.1	142.0	Tw	<i>Atriplex paludosa</i>	-15.2	-2.1
A. 2008.8.13.22	34.5	142.2	Tw	<i>Atriplex stipitata</i>	-15.7	-2.7
A. 2008.8.17.3	34.6	138.7	Tw	<i>Atriplex nummularia</i>	-16.0	-3.0
A. 2008.8.12.5	34.7	140.8	Tw	<i>Atriplex stipitata</i>	-16.4	-3.3
A. 2008.8.14.2	35.1	142.1	Tw	<i>Atriplex nummularia</i>	-17.6	-4.5
A. 2008.8.13.10	34.2	140.7	Tw	<i>Atriplex semibaccata</i> (?)	-18.0	-4.9
M. 2008.8.12.5	34.6	140.6	Tw	<i>Maireana pyramidata</i> (?)	-23.6	-10.6
M. 2008.8.14.1	35.1	142.3	Tw	<i>Maireana</i> sp. indet.	-24.5	-11.6
M. 2008.8.13.7	34.3	141.4	Tw	<i>Maireana</i> sp. indet.	-25.3	-12.3
M. 2008.8.13.8	34.2	141.6	Tw	<i>Maireana pyramidata</i> (?)	-26.2	-13.2
M. 2008.8.13.9	34.3	141.6	Tw	<i>Maireana sedifolia</i>	-26.6	-13.6
M. 2008.8.12.6	34.6	140.5	Tw	<i>Maireana sedifolia</i>	-27.0	-14.0
