

Table S3. Descriptive statistics, the isotopic spread of the criteria of the different outlier identification methods, and the numbers and percentage of outliers found using the five different methods for each site in the Post Infant Dentition data subset where N>4.

Site	N	Mean	SD	Median	Range	Skewness ±SE	Kurtosis ±SE	IQR	MAD _{un-scaled}	Q3 of MAD	MAD _{norm}	MAD _{Q3}	2SD spread (%)	1.5IQR spread (%)	3MAD _{norm} spread (%)	3MAD _{Q3} spread (%)	Outlier N: 2%	Outlier N: 2SD	Outlier N: 1.5IQR	Outlier N: 3MAD _{norm}	Outlier N: 3MAD _{Q3}	Outlier %: 2%	Outlier %: 2SD	Outlier %: 1.5IQR	Outlier %: 3MAD _{norm}	Outlier %: 3MAD _{Q3}	References	
Abingdon	24	18.4	0.4	18.4	1.5	0.12±0.47	0.36±0.92	0.5	0.22	0.38	0.32	0.57	1.4	1.8	1.9	3.4	0	1	0	0	0	0	4	0	0	0	Chambers, 2006	
Anse a la Gourde	6	20.0	0.5	20.0	1.6	0.29±0.85	2.41±1.74	0.5	0.07	0.76	0.10	0.09	2.0	1.9	0.6	0.6	0	0	0	2	2	0	0	0	33	33	Laffoon et al., 2013	
Auldhamne	21	17.5	0.6	17.4	2.5	0.46±0.50	0.09±0.97	1.1	0.50	0.80	0.74	0.63	2.5	4.2	4.4	3.8	1	1	0	0	0	5	5	0	0	0	Evans et al., 2012	
Bamburgh	13	16.9	0.7	17.1	2.7	-1.70±0.62	3.85±1.19	0.7	0.30	0.55	0.44	0.55	2.9	2.8	2.7	3.3	1	1	1	1	1	8	8	8	8	Evans et al., 2012		
Ban Chiang	39	18.0	1.0	18.2	3.9	-0.48±0.38	-0.39±0.74	1.5	0.75	1.14	1.11	0.66	4.0	6.0	6.7	3.9	13	2	0	0	0	2	33	5	0	0	Bentley et al., 2005	
Ban Lum Khao	10	17.2	1.3	17.2	3.4	-0.21±0.69	-1.52±1.33	2.4	1.09	1.53	1.62	0.71	5.1	9.7	9.7	4.3	7	0	0	0	0	0	70	0	0	0	Bentley et al., 2009	
Ban Non Wat	89	17.8	0.7	17.8	3.5	-0.16±0.26	0.00±0.51	0.9	0.40	0.91	0.59	0.44	3.0	3.6	3.6	2.7	17	6	0	0	0	9	19	7	0	0	10	King et al., 2013
Berinsfield	19	17.8	0.4	17.8	1.2	-0.23±0.52	-0.85±1.01	0.5	0.30	0.40	0.44	0.75	1.4	2.0	2.7	4.5	0	1	0	0	0	0	0	5	0	0	0	Hughes et al., 2014
Black Gate Newcastle	17	17.4	0.5	17.5	1.7	-0.42±0.55	-0.69±1.06	0.9	0.40	0.60	0.59	0.67	2.0	3.8	3.6	4.0	1	1	0	0	0	0	6	6	0	0	0	Evans et al., 2012
Boscombe Down	5	17.4	0.3	17.4	0.7	-0.61±0.91	-0.13±2.00	0.5	0.21	0.33	0.31	0.65	1.1	2.0	1.9	3.9	0	0	0	0	0	0	0	0	0	0	Evans et al., 2006b	
Bowl Hole cemetery	60	18.3	1.0	18.6	4.4	-0.98±0.31	0.51±0.61	1.3	0.50	0.98	0.74	0.51	3.9	5.0	4.4	3.1	14	3	2	3	8	23	5	3	5	13	Groves et al., 2013	
Brownslade	10	18.7	0.4	18.9	1.6	-1.63±0.69	4.21±1.33	0.3	0.20	0.30	0.30	0.67	1.7	1.3	1.8	4.0	1	1	1	1	0	10	10	10	10	0	Hemer et al., 2013	
Caesarea	8	14.7	1.6	14.6	5.7	1.56±0.75	3.99±1.48	1.1	0.51	1.63	0.75	0.31	6.6	4.4	4.5	1.9	2	1	1	1	2	25	13	13	13	25	Mitchell and Millard, 2009	
Cahuachi	11	13.9	2.3	13.0	7.3	1.05±0.66	0.23±1.28	2.8	0.81	2.20	1.20	0.37	9.4	11.2	7.2	2.2	8	0	0	2	4	73	0	0	18	36	Knudson et al., 2009	
Callis Wold	5	17.8	0.8	17.9	2.1	-1.60±0.91	3.02±2.00	1.3	0.30	1.05	0.44	0.29	3.2	5.0	2.7	1.7	1	0	0	1	1	20	0	0	20	20	Evans et al., 2012	
Caspiana	11	17.8	0.6	17.9	1.7	0.16±0.66	-1.65±1.28	1.1	0.57	0.68	0.85	0.84	2.4	4.4	5.1	5.0	0	0	0	0	0	0	0	0	0	0	Knudson and Torres-Rouff, 2009	
Catterick	22	17.6	0.5	17.8	1.7	-0.14±0.49	-0.89±0.95	0.8	0.34	0.67	0.50	0.50	1.9	3.0	3.0	3.0	0	0	0	0	0	0	0	0	0	0	Cheney et al., 2011	
Chelsea	22	17.5	0.6	17.4	2.7	0.50±0.49	0.85±0.95	0.6	0.25	0.55	0.37	0.45	2.6	2.5	2.2	2.7	4	2	3	4	2	18	9	14	18	9	Evans et al., 2012	
Clad Hallan	6	18.3	0.3	18.4	0.8	-0.79±0.85	-0.14±1.74	0.6	0.25	0.33	0.37	0.77	1.2	2.3	2.2	4.6	0	0	0	0	0	0	0	0	0	0	Evans et al., 2012	
Cnipe	5	17.6	1.0	17.3	2.2	0.63±0.91	-1.62±2.00	1.9	0.60	1.25	0.89	0.48	3.9	7.4	5.3	2.9	1	0	0	0	1	20	0	0	0	20	Evans et al., 2012	
Copan	9	18.1	1.8	18.0	5.0	0.38±0.72	-1.10±1.40	3.5	1.35	2.34	2.00	0.58	7.2	13.8	12.0	3.5	6	0	0	0	4	67	0	0	0	44	Buijkstra et al., 2004	
Coventry	10	16.6	0.4	16.6	1.2	0.32±0.69	-1.23±1.33	0.8	0.35	0.50	0.52	0.70	1.6	3.0	3.1	4.2	0	0	0	0	0	0	0	0	0	0	Evans et al., 2012	
Cronk Keeillane	7	17.9	0.6	17.7	1.5	0.72±0.79	-0.72±1.59	1.2	0.40	0.80	0.59	0.50	2.3	4.8	3.6	3.0	0	0	0	0	0	0	0	0	0	0	Hemer et al., 2014	
Dragišić	10	19.2	1.9	19.8	5.5	-1.50±0.69	1.27±1.33	2.3	0.83	1.57	1.22	0.53	7.5	9.3	7.3	3.2	6	1	0	1	2	60	10	0	10	20	Lightfoot et al., 2014	
Duggleby Howe	5	18.0	0.6	17.8	1.4	1.03±0.91	0.08±2.00	1.0	0.30	0.80	0.44	0.38	2.3	4.0	2.7	2.3	0	0	0	0	0	0	0	0	0	0	Evans et al., 2012	
Eastbourne	19	18.0	0.5	18.1	1.7	-0.34±0.52	-0.85±1.01	0.8	0.40	0.70	0.59	0.57	2.0	3.2	3.6	3.4	0	0	0	0	0	0	0	0	0	0	Evans et al., 2012	
El Chorro de Maita	10	18.9	1.1	19.3	3.6	-1.32±0.69	1.31±1.33	1.5	0.37	1.13	0.54	0.32	4.4	6.0	3.2	1.9	3	1	0	1	2	30	10	0	10	20	Laffoon et al., 2013	
Giberville	5	17.9	0.2	18.0	0.5	-0.20±0.91	-2.72±2.00	0.4	0.20	0.30	0.30	0.67	0.9	1.8	4.0	0	0	0	0	0	0	0	0	0	0	0	Brettell et al., 2012	
Glauberg	15	16.5	0.6	16.4	2.0	-0.97±0.58	0.74±1.12	0.7	0.50	0.70	0.74	0.71	2.4	2.8	4.4	4.3	1	1	1	0	0	7	7	7	0	0	Knipper et al., 2014	

Site	N	Mean	SD	Median	Range	Skewness \pm SE	Kurtosis \pm SE	IQ R	MAD unscaled	Q3 of MAD	MAD _{no rm}	MAD _{Q3}	2SD spread (%)	1.5IQR spread (%)	3MAD _{norm} spread (%)	Outlier N: 2%	Outlier N: 2SD	Outlier N: 1.5IQR	Outlier N: 3MAD _{norm}	Outlier N: 3MAD _{Q3}	Outlier %: 2%	Outlier %: 2SD	Outlier %: 1.5IQR	Outlier %: 3MAD _{norm}	Outlier %: 3MAD _{Q3}	References		
Kaminaljuyu	90	17.0	1.3	16.6	6.2	1.20 \pm 0.25	1.09 \pm 0.50	1.2	0.46	1.16	0.68	0.40	5.2	4.6	4.1	2.4	32	7	9	11	22	36	8	10	12	24	White et al., 2000, Wright and Schwarcz, 1998, Wright et al., 2010	
Khok Phnom Di	37	16.6	0.6	16.4	2.9	0.34 \pm 0.39	0.19 \pm 0.76	0.8	0.34	0.78	0.50	0.44	2.5	3.0	3.0	2.6	3	2	1	1	1	8	5	3	3	3	Bentley et al., 2007a	
Kutna Hora	22	16.4	0.6	16.5	2.4	-0.73 \pm 0.49	0.36 \pm 0.95	0.9	0.35	0.68	0.52	0.52	2.5	3.6	3.1	3.1	2	1	0	0	0	9	5	0	0	0	Scheeres et al., 2013	
La Tiza	15	15.4	0.8	15.3	2.8	1.40 \pm 0.58	1.95 \pm 1.12	0.6	0.32	0.74	0.47	0.43	3.1	2.4	2.8	2.6	2	1	2	2	2	13	7	13	13	13	Buzon et al., 2011, Buzon et al., 2012	
Lankhills	46	17.9	1.0	18.1	4.8	-1.33 \pm 0.35	2.63 \pm 0.69	0.7	0.35	0.95	0.52	0.37	3.9	3.0	3.1	2.2	10	3	4	4	8	22	7	9	9	17	Eckardt et al., 2009, Evans et al., 2006a	
Llandough	15	18.5	0.4	18.5	1.6	-0.39 \pm 0.58	0.89 \pm 1.12	0.5	0.20	0.50	0.30	0.40	1.6	2.0	1.8	2.4	0	1	0	1	0	0	7	0	7	0	Hemer et al., 2013	
Machu Picchu	25	12.4	2.0	12.0	7.6	0.11 \pm 0.46	-0.60 \pm 0.90	2.9	1.35	2.63	2.00	0.51	8.1	11.6	12.0	3.1	17	0	0	0	0	12	68	0	0	0	48	Turner et al., 2009
Magdalenenberg	45	15.7	0.7	15.7	3.3	-0.21 \pm 0.35	0.08 \pm 0.69	1.1	0.50	0.70	0.74	0.71	2.8	4.4	4.4	4.3	6	3	0	0	0	0	13	7	0	0	0	Oelze et al., 2012
Manzanilla	5	19.2	0.5	19.1	1.3	1.27 \pm 0.91	2.76 \pm 2.00	0.7	0.14	0.64	0.21	0.22	1.9	2.8	1.2	1.3	0	0	0	1	1	0	0	0	0	20	20	Laffoon et al., 2013
Masham	21	16.8	0.5	16.8	1.9	-0.55 \pm 0.50	0.75 \pm 0.97	0.6	0.25	0.41	0.37	0.61	1.9	2.4	2.2	3.7	0	2	0	0	0	0	0	10	0	0	0	Buckberry et al., 2014
Nadin-Gradine	22	18.0	0.8	17.9	3.5	0.83 \pm 0.49	1.01 \pm 0.95	1.1	0.59	0.84	0.87	0.69	3.3	4.5	5.2	4.2	5	1	1	0	1	23	5	5	0	5	Lightfoot et al., 2014	
Newton plantation	9	17.3	0.8	17.6	2.0	-0.83 \pm 0.72	-1.21 \pm 1.40	1.6	0.36	1.23	0.53	0.29	3.2	6.2	3.2	1.8	2	0	0	0	3	22	0	0	0	33	Schroeder et al., 2009	
Nin-Ždrijač	48	16.8	1.1	16.8	5.0	-0.19 \pm 0.34	-0.27 \pm 0.67	1.7	0.80	1.23	1.19	0.65	4.2	6.6	7.1	3.9	17	2	0	0	0	2	35	4	0	0	4	Lightfoot et al., 2014
Noen U-loke	21	18.2	0.8	18.2	2.8	0.46 \pm 0.50	-0.35 \pm 0.97	0.9	0.39	1.12	0.58	0.35	3.1	3.4	3.5	2.1	6	0	0	0	6	29	0	0	0	29	Cox et al., 2011	
Parliament House	6	17.6	0.7	17.4	1.8	1.76 \pm 0.85	3.29 \pm 1.74	0.9	0.30	0.63	0.44	0.48	2.6	3.6	2.7	2.9	1	0	0	1	1	17	0	0	0	17	17	Evans et al., 2012
Peel Castle	11	18.1	0.6	18.0	1.7	0.13 \pm 0.66	-1.22 \pm 1.28	1.1	0.50	0.63	0.74	0.79	2.2	4.4	4.4	4.8	0	0	0	0	0	0	0	0	0	0	Hemer et al., 2013, Symonds et al., 2014	
Phaeno	14	20.1	0.7	20.2	2.4	0.51 \pm 0.60	0.48 \pm 1.15	0.9	0.42	0.75	0.62	0.56	2.6	3.5	3.7	3.3	1	1	0	0	0	0	7	7	0	0	0	Perry et al., 2009
Pica 8	19	13.1	1.8	13.3	8.1	0.93 \pm 0.52	3.52 \pm 1.01	1.4	0.62	1.30	0.92	0.48	7.1	5.6	5.5	2.9	7	1	2	3	4	37	5	11	16	21	Santana-Sagredo et al., 2015	
Podvršje-Glavčine	11	17.1	1.1	17.1	3.4	0.15 \pm 0.66	-1.32 \pm 1.28	2.0	0.86	1.26	1.28	0.68	4.5	8.0	7.7	4.1	5	0	0	0	0	45	0	0	0	0	Lightfoot et al., 2014	
Porthclews	5	18.4	0.5	18.5	1.2	0.16 \pm 0.91	-1.81 \pm 2.00	1.0	0.60	0.60	0.89	1.00	2.1	4.0	5.3	6.0	0	0	0	0	0	0	0	0	0	0	Hemer et al., 2013	
Radašinovci-Vinogradine	51	18.1	0.9	18.2	4.5	-0.29 \pm 0.33	-0.05 \pm 0.66	1.5	0.72	1.09	1.07	0.66	3.7	6.0	6.4	4.0	17	2	0	0	1	33	4	0	0	2	Lightfoot et al., 2014	
Radovesice	32	16.3	0.5	16.2	2.4	-0.60 \pm 0.41	0.74 \pm 0.81	0.7	0.35	0.60	0.52	0.58	2.1	2.9	3.1	3.5	1	1	1	0	0	3	3	3	0	0	Scheeres et al., 2013	
Riccall	12	18.0	0.5	18.3	1.4	-1.10 \pm 0.64	0.49 \pm 1.23	0.7	0.15	0.53	0.22	0.29	1.8	2.7	1.3	1.7	1	1	0	2	1	8	8	0	17	8	Evans et al., 2012	
Ringlemere	6	18.2	0.4	18.2	1.1	-0.53 \pm 0.85	1.54 \pm 1.74	0.5	0.15	0.53	0.22	0.29	1.5	2.0	1.3	1.7	0	0	0	0	0	0	0	0	0	Brettell et al., 2012		
Rio Muerto	7	12.0	1.8	12.2	5.1	-0.68 \pm 0.79	-0.05 \pm 1.59	2.6	1.24	1.86	1.84	0.67	7.0	10.4	11.0	4.0	5	0	0	0	1	71	0	0	0	14	Knudson et al., 2014	
SAC	5	14.7	0.3	14.6	0.6	-0.51 \pm 0.91	-0.61 \pm 2.00	0.5	0.28	0.31	0.42	0.90	1.0	1.8	2.5	5.4	0	0	0	0	0	0	0	0	0	0	Shaw et al., 2010	
Sannerville	6	17.8	0.3	17.8	0.7	-0.26 \pm 0.85	-0.99 \pm 1.74	0.6	0.25	0.33	0.37	0.77	1.1	2.2	2.2	4.6	0	0	0	0	0	0	0	0	0	0	Brettell et al., 2012	
Schipholiden	7	17.0	1.0	16.7	3.1	1.32 \pm 0.79	2.49 \pm 1.59	1.0	0.30	0.90																		

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Vis-Bandirica	5	17.1	1.1	17.3	2.7	-0.78 \pm 0.91	-0.14 \pm 2.00	2.0	0.72	1.33	1.07	0.54	4.3	7.8	6.4	3.2	2	0	0	1	40	0	0	0	20	Lightfoot et al., 2014	
Wadi Halfa	11	25.0	0.6	25.0	1.7	-0.33 \pm 0.66	-1.33 \pm 1.28	1.2	0.60	0.70	0.89	0.86	2.6	4.8	5.3	5.1	0	0	0	0	0	0	0	0	0	White et al., 2004c	
Wasperon	21	18.1	0.5	18.1	1.9	0.44 \pm 0.50	-0.25 \pm 0.97	0.8	0.30	0.60	0.44	0.50	1.9	3.0	2.7	3.0	1	1	0	0	5	5	0	0	0	Evans et al., 2012	
Wetwang/Garton	25	17.4	0.5	17.3	1.8	0.20 \pm 0.46	-0.42 \pm 0.90	0.6	0.30	0.55	0.44	0.55	2.0	2.6	2.7	3.3	0	0	0	0	0	0	0	0	0	Jay et al., 2013	
Weymouth	10	15.5	0.8	15.7	2.9	-1.36 \pm 0.69	3.21 \pm 1.33	0.8	0.35	0.68	0.52	0.52	3.1	3.1	3.1	3.1	2	1	1	1	1	20	10	10	10	Evans et al., 2012	
York	69	17.8	0.9	17.8	5.1	-0.32 \pm 0.29	1.02 \pm 0.57	1.3	0.60	0.90	0.89	0.67	3.6	5.0	5.3	4.0	15	3	1	1	1	22	4	1	1	1	Buckberry et al., 2014, Leach et al., 2009, Müldner et al., 2011
Zadar	43	16.6	1.1	16.6	4.6	-0.15 \pm 0.36	-0.69 \pm 0.71	1.9	0.94	1.26	1.39	0.75	4.5	7.6	8.4	4.5	19	2	0	0	2	44	5	0	0	5	Lightfoot et al., 2014

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