

Table DR1: U-Th analyses

sample/analysis	material	analysis type	$(^{238}\text{U})/(^{232}\text{Th})$	±	$(^{230}\text{Th})/(^{232}\text{Th})$	±	age [ka]	+ [ka]	- [ka]	U [ppm]
<b>Red Island granophyre</b>										
2008_07_05July\ I70-24_z1@1.ais	zircon	rim	6.04	0.03	2.18	0.29	27.8	8.0	-7.5	266
2008_07_05July\ I70-24_z2@1.ais	zircon	rim	5.80	0.11	1.78	0.18	18.6	4.9	-4.7	560
2008_07_05July\ I70-24_z3@1.ais	zircon	rim	6.82	0.07	1.87	0.20	17.3	4.4	-4.2	750
2008_07_05July\ I70-24_z4@1.ais	zircon	rim	7.14	0.18	2.59	0.16	31.5	4.0	-3.8	1386
2008_07_05July\ I70-24_z5@1.ais	zircon	rim	7.97	0.16	2.80	0.15	31.6	3.2	-3.1	1321
2008_07_05July\ I70-24_z6@1.ais	zircon	rim	5.65	0.02	2.19	0.16	30.7	4.8	-4.6	364
2008_07_05July\ I70-24_z7@1.ais	zircon	rim	9.48	0.84	2.53	0.22	21.3	4.1	-3.9	463
2008_07_05July\ I70-24_z8@1.ais	zircon	rim	7.40	0.15	2.45	0.15	27.2	3.4	-3.3	1408
2008_07_05July\ I70-24_z9@1.ais	zircon	rim	5.48	0.03	2.16	0.16	31.1	4.9	-4.7	483
2008_07_05July\ I70-24_z10@1.ais	zircon	rim	6.21	0.03	2.27	0.16	29.3	4.2	-4.1	750
2008_07_05July\ I70-24_z11@1.ais	zircon	rim	2.82	0.03	1.42	0.04	25.8	2.9	-2.8	341
2008_07_05July\ I70-24_z12@1.ais	zircon	rim	9.36	0.33	2.61	0.16	22.9	2.7	-2.6	3759
2008_07_05July\ I70-24_z13@1.ais	zircon	rim	3.14	0.04	1.45	0.05	23.8	3.2	-3.1	2039
2008_07_05July\ I70-24_z14@1.ais	zircon	rim	7.35	0.19	2.23	0.10	22.8	2.2	-2.2	2205
2008_07_05July\ I70-24_z15@1.ais	zircon	rim	5.55	0.07	2.19	0.09	31.7	3.0	-2.9	3383
2010_08_10Aug\ I70-24_2_z@1.ais	zircon	rim	5.16	0.06	1.98	0.09	27.8	3.0	-2.9	782
2010_08_10Aug\ I70-24_2_z@2.ais	zircon	rim	4.90	0.05	1.78	0.06	23.3	2.0	-2.0	864
2010_08_10Aug\ I70-24_2_z@3.ais	zircon	rim	15.05	1.49	3.69	0.47	22.9	5.2	-5.0	460
2010_08_10Aug\ I70-24_2_z@4.ais	zircon	rim	6.01	0.11	2.06	0.09	24.9	2.4	-2.4	793
2010_08_10Aug\ I70-24_2_z@5.ais	zircon	rim	6.30	0.07	1.13	0.03	2.98	0.63	-0.63	3344
2010_08_10Aug\ I70-24_2_z@6.ais	zircon	rim	5.02	0.06	1.96	0.08	28.3	2.6	-2.5	776
2010_08_10Aug\ I70-24_2_z@7.ais	zircon	rim	6.97	0.11	2.65	0.16	34.0	3.9	-3.8	230
2010_08_10Aug\ I70-24_2_z@8.ais	zircon	rim	10.09	0.17	2.00	0.10	12.7	1.4	-1.4	1155
2010_08_10Aug\ I70-24_2_z@9.ais	zircon	rim	5.25	0.08	2.14	0.09	32.4	2.9	-2.9	484
2010_08_10Aug\ I70-24_2_z@10.ais	zircon	rim	5.70	0.09	2.25	0.14	32.1	4.2	-4.1	421
2010_08_10Aug\ I70-24_2_z@11.ais	zircon	rim	7.26	0.47	2.15	0.10	21.6	2.7	-2.7	1343
2010_08_10Aug\ I70-24_2_z@12.ais	zircon	rim	4.88	0.06	2.15	0.10	36.1	3.6	-3.5	1316
2010_08_10Aug\ I70-24_2_z@13.ais	zircon	rim	4.81	0.06	2.07	0.09	33.8	3.5	-3.4	629
2010_08_10Aug\ I70-24_2_z@14.ais	zircon	rim	7.21	0.15	2.46	0.13	28.3	2.9	-2.8	887
2010_08_10Aug\ I70-24_2_z@15.ais	zircon	rim	5.13	0.10	2.07	0.13	31.1	4.3	-4.1	1110

2010_08_10Aug\ I70-24_2_z@17.ais	zircon	rim	4.59	0.06	1.88	0.09	29.0	3.4	-3.3	997
2010_08_10Aug\ I70-24_2_z@18.ais	zircon	rim	5.23	0.06	1.83	0.07	22.7	2.2	-2.2	1006
2010_08_10Aug\ I70-24_2_z@19.ais	zircon	rim	5.10	0.07	2.26	0.12	37.9	4.5	-4.3	716
2010_08_10Aug\ I70-24_2_z@20.ais	zircon	rim	6.50	0.17	2.00	0.08	21.3	1.9	-1.9	1289
2010_08_10Aug\ I70-24_2_z@21.ais	zircon	rim	5.87	0.09	1.84	0.10	20.0	2.5	-2.4	548
2010_08_10Aug\ I70-24_2_z@22.ais	zircon	rim	4.32	0.05	1.84	0.07	30.0	2.9	-2.8	1022
2010_08_10Aug\ I70-24_2_z@23.ais	zircon	rim	6.17	0.17	2.14	0.05	26.1	1.6	-1.6	1848
I70-24	whole-rock	-	0.696	0.002	0.974	0.004	-	-	-	3.482
rhyolite lava										
2005_11_29Nov\ SB0402MLT4_g2_s1.ais	zircon	interior	3.16	0.01	1.03	0.04	1.83	2.08	-2.04	1554
2005_02_14Feb\ SB0401_g1_s1.ais	zircon	interior	3.14	0.05	1.09	0.02	4.45	1.21	-1.19	4442
2005_02_14Feb\ SB0402_g9_s1.ais	zircon	interior	5.05	0.02	1.22	0.06	6.19	1.86	-1.83	790
2005_02_13Feb\ SB0402_g7_s1.ais	zircon	interior	3.04	0.02	1.09	0.02	5.17	1.56	-1.54	3441
2005_11_29Nov\ SB0402MLT4_g6_s1.ais	zircon	interior	4.81	0.03	1.25	0.10	7.43	3.08	-3.00	601
2005_02_14Feb\ SB0401_g7_s1.ais	zircon	interior	2.83	0.01	1.10	0.02	6.17	1.75	-1.72	3551
2005_02_14Feb\ SB0401_g10_s1.ais	zircon	interior	5.37	0.03	1.32	0.06	8.13	1.83	-1.80	788
2005_11_29Nov\ SB0402MLT4_g3_s1.ais	zircon	interior	4.99	0.06	1.32	0.08	8.95	2.50	-2.44	448
2005_11_29Nov\ SB0402MLT4_g5_s1.ais	zircon	interior	5.69	0.03	1.39	0.14	9.48	3.65	-3.53	389
2005_02_14Feb\ SB0401_g9_s1.ais	zircon	interior	5.36	0.09	1.40	0.11	10.4	3.0	-2.9	522
2005_02_14Feb\ SB0401_g6_s1.ais	zircon	interior	5.56	0.04	1.52	0.10	13.2	2.8	-2.7	408
2005_02_13Feb\ SB0402_g1_s1.ais	zircon	interior	4.01	0.18	1.34	0.06	12.9	2.9	-2.8	771
2005_11_29Nov\ SB0402MLT4_g1_s1.ais	zircon	interior	2.23	0.03	1.11	0.04	10.3	4.4	-4.2	4646
2005_02_14Feb\ SB0402_g10_s1.ais	zircon	interior	2.09	0.01	1.10	0.02	9.81	2.22	-2.18	3007
2005_02_14Feb\ SB0402_g8_s1.ais	zircon	interior	6.27	0.03	1.77	0.12	16.9	3.1	-3.0	493
2005_02_14Feb\ SB0401_g5_s1.ais	zircon	interior	3.94	0.01	1.42	0.05	16.4	2.4	-2.4	960
2005_02_13Feb\ SB0402_g2_s1.ais	zircon	interior	6.19	0.12	1.77	0.07	17.3	2.0	-1.9	817
2006_08_30Aug\ SB0401_Buff2_g1_s1.ais	zircon	interior	4.90	0.04	1.32	0.06	9.36	1.86	-1.83	-
2006_08_30Aug\ SB0401_Buff2_g2_s1.ais	zircon	interior	4.33	0.18	1.03	0.05	1.20	1.92	-1.89	-
2006_08_30Aug\ SB0401_Buff2_g3_s1.ais	zircon	interior	5.03	0.04	1.61	0.08	17.5	2.8	-2.7	-
2006_08_30Aug\ SB0402_Buff2_g1_s1.ais	zircon	interior	5.47	0.04	1.42	0.10	10.7	2.7	-2.6	-
2006_08_30Aug\ SB0402_Buff2_g2_s1.ais	zircon	interior	7.26	0.09	1.54	0.18	9.75	3.56	-3.45	-
2006_08_30Aug\ SB0402_Buff2_g3_s1.ais	zircon	interior	7.02	0.04	1.47	0.11	8.75	2.28	-2.23	-
2006_08_30Aug\ SB0402_Buff2_g4_s1.ais	zircon	interior	6.29	0.04	1.61	0.13	13.2	3.2	-3.1	-
2006_08_30Aug\ SB0401_Buff2_g4_s1.ais	zircon	interior	5.34	0.09	1.41	0.07	10.6	2.0	-1.9	-

2006_08_30Aug\ SB0401_Buff2_g2_s1B.ais	zircon	interior	2.83	0.03	1.12	0.02	7.29	1.79	-1.76	-
2008_02_01Feb\ SB0401R@1.ais	zircon	rim	5.10	0.03	1.14	0.06	3.70	1.85	-1.82	450
2008_02_01Feb\ SB0401R@2.ais	zircon	rim	5.43	0.03	1.36	0.08	9.29	2.21	-2.17	307
2008_02_01Feb\ SB0401R@3.ais	zircon	rim	5.02	0.03	1.27	0.06	7.62	1.95	-1.91	455
2008_02_01Feb\ SB0401R@4.ais	zircon	rim	6.01	0.04	1.12	0.09	2.78	2.06	-2.02	233
2008_02_01Feb\ SB0401R@5.ais	zircon	rim	5.79	0.04	1.05	0.08	1.31	1.83	-1.80	258
2008_02_01Feb\ SB0401R@6.ais	zircon	rim	6.00	0.04	1.30	0.10	6.61	2.34	-2.29	219
2008_02_01Feb\ SB0401R@7.ais	zircon	rim	6.51	0.08	1.24	0.13	4.86	2.80	-2.73	154
2008_02_01Feb\ SB0401R@8.ais	zircon	rim	5.93	0.03	1.27	0.10	6.16	2.48	-2.43	182
2008_02_01Feb\ SB0401R@9.ais	zircon	rim	4.91	0.19	1.13	0.11	3.84	3.21	-3.12	339
2008_02_01Feb\ SB0401R@10.ais	zircon	rim	5.05	0.16	1.61	0.14	17.7	4.7	-4.5	215
2008_05_24May\ SB0401R@11.ais	zircon	rim	5.50	0.03	1.41	0.14	10.4	3.8	-3.7	542
2008_05_24May\ SB0401R@12.ais	zircon	rim	5.57	0.05	1.34	0.13	8.26	3.48	-3.37	563
2008_05_24May\ SB0401R@13.ais	zircon	rim	5.51	0.03	1.58	0.13	14.7	3.7	-3.6	516
2008_05_24May\ SB0401R@14.ais	zircon	rim	5.51	0.04	1.48	0.14	12.1	3.9	-3.8	494
2008_05_24May\ SB0401R@15.ais	zircon	rim	5.75	0.03	1.36	0.24	8.51	6.07	-5.75	457
2008_05_24May\ SB0401R@16.ais	zircon	rim	5.71	0.02	1.22	0.14	5.14	3.39	-3.29	506
2008_05_24May\ SB0401R@17.ais	zircon	rim	5.48	0.05	1.45	0.11	11.4	3.1	-3.0	641
2008_05_24May\ SB0401R@18.ais	zircon	rim	5.33	0.05	1.50	0.13	13.3	3.7	-3.6	578
2008_05_24May\ SB0401R@19.ais	zircon	rim	5.79	0.03	1.23	0.14	5.32	3.50	-3.40	415
2008_05_24May\ SB0401R@20.ais	zircon	rim	4.95	0.10	1.34	0.12	9.60	3.67	-3.55	806
2008_05_24May\ SB0401R@21.ais	zircon	rim	5.78	0.05	1.55	0.16	13.3	4.1	-4.0	509
2008_05_24May\ SB0401R@22.ais	zircon	rim	5.84	0.03	1.54	0.19	12.7	4.8	-4.6	371
2008_05_24May\ SB0401R@23.ais	zircon	rim	5.66	0.04	1.32	0.16	7.71	4.24	-4.08	490
2008_05_24May\ SB0401R@24.ais	zircon	rim	6.48	0.05	1.90	0.21	19.3	5.1	-4.9	384
2008_05_24May\ SB0401R@25.ais	zircon	rim	6.11	0.04	1.48	0.20	10.8	4.9	-4.7	293
SB0402	whole-rock	-	0.923	0.001	0.997	0.004	-	-		5.987

analytical errors  $1\sigma$

SB0401 sampled at Red Island: N 33°11'59.1"; W 115°36'44.3'

SB0402 sampled at Obsidian Butte: N 33°10'14.6"; W 115°38'03.1'

2005 data: Schmitt and Vazquez (2006); 2006 data: Schmitt (2007)

Decay constants used:  $\lambda_{230}$ :  $9.1577 \cdot 10^{-6} \text{ a}^{-1}$ ;  $\lambda_{232}$ :  $4.9475 \cdot 10^{-11} \text{ a}^{-1}$ ;  $\lambda_{238}$ :  $1.55125 \cdot 10^{-10} \text{ a}^{-1}$

Table DR2: (U-Th)/He zircon analyses of Red Island granophyre

Sample	lab	Age [ka] (U-Th)/He equilibrium	$\pm$ [ka]	Age [ka] (U-Th)/He disequilibrium	+ [ka]	- [ka]	$\pm$ [ka]	Age [ka] U-Th rim crystallization	$\pm$ [ka]	U [ppm]	Th [ppm]	Th/U	mass [ug]	Ft	D <sub>230</sub>	comment
zI7024-1-1	KU	1.79	0.50	2.82	0.92	0.73	0.82	27.8	7.7	316	180	0.57	17.0	0.83	0.181	
zI7024-1-2	KU	2.29	0.64	3.94	0.93	1.21	1.07	18.6	4.8	290	196	0.68	26.0	0.85	0.215	
zI7024-1-3	KU	2.09	0.58	3.70	0.95	1.10	1.02	17.3	4.3	475	275	0.58	14.1	0.82	0.185	
zI7024-1-4	KU	1.71	0.48	2.64	0.62	0.82	0.72	31.5	3.9	330	263	0.80	20.9	0.85	0.254	
<del>zI7024-1-5</del>	<del>KU</del>	<del>40.21</del>	<del>11.22</del>	<del>40.21</del>	<del>11.22</del>	<del>11.22</del>	<del>11.22</del>	<del>31.6</del>	<del>3.2</del>	<del>50</del>	<del>129</del>	<del>2.57</del>	<del>4.9</del>	<del>0.76</del>	<del>0.820</del>	U peak miscentering
zI7024-1-6	KU	1.78	0.50	2.73	0.83	0.72	0.78	30.7	4.7	299	200	0.67	8.0	0.79	0.214	
zI7024-1-7	KU	1.32	0.37	2.07	0.60	0.56	0.58	21.3	4.0	439	333	0.76	18.9	0.83	0.242	
zI7024-1-8	KU	1.94	0.54	2.88	0.95	0.71	0.83	27.2	3.3	590	434	0.73	16.9	0.83	0.234	
zI7024-1-9	KU	1.66	0.46	2.52	0.68	0.72	0.70	31.1	4.8	383	285	0.74	11.2	0.81	0.237	
zI7024-1-10	KU	1.10	0.31	1.71	0.42	0.50	0.46	29.3	4.2	487	365	0.75	14.8	0.82	0.239	
<del>zI7024-2-1</del>	<del>KU</del>	<del>19.86</del>	<del>5.54</del>	<del>19.86</del>	<del>5.54</del>	<del>5.54</del>	<del>5.54</del>	<del>27.8</del>	<del>3.0</del>	<del>310</del>	<del>204</del>	<del>0.66</del>	<del>19.5</del>	<del>0.84</del>	<del>0.210</del>	partial crystal loss after laser heating
zI7024-2-2	KU	3.35	0.94	5.18	1.19	1.54	1.37	23.3	2.0	520	466	0.90	8.4	0.80	0.286	
zI7024-2-3	KU	7.29	2.03	12.09	3.87	3.28	3.58	22.9	5.1	328	200	0.61	30.5	0.86	0.194	
<del>zI7024-2-4</del>	<del>KU</del>	<del>38.16</del>	<del>10.65</del>	<del>38.16</del>	<del>10.65</del>	<del>10.65</del>	<del>10.65</del>	<del>24.9</del>	<del>2.4</del>	<del>396</del>	<del>284</del>	<del>0.72</del>	<del>6.0</del>	<del>0.77</del>	<del>0.220</del>	partial crystal loss after laser heating
zI7024-2-5	KU	1.54	0.43	3.18	0.91	0.83	0.87	3.0	0.6	1898	1052	0.55	7.5	0.74	0.177	
<del>zI7024-2-6</del>	<del>KU</del>	<del>18.16</del>	<del>5.07</del>	<del>18.16</del>	<del>5.07</del>	<del>5.07</del>	<del>5.07</del>	<del>28.3</del>	<del>2.6</del>	<del>406</del>	<del>270</del>	<del>0.66</del>	<del>9.4</del>	<del>0.79</del>	<del>0.212</del>	partial crystal loss after laser heating
zI7024-2-7	KU	4.21	1.17	6.90	1.55	2.13	1.84	34.0	3.9	258	163	0.63	20.3	0.81	0.201	
zI7024-2-9	KU	2.05	0.57	3.36	0.75	1.07	0.91	32.4	2.9	143	90	0.63	23.2	0.85	0.201	
zI7024-2-10	KU	1.32	0.37	1.98	0.56	0.55	0.55	32.1	4.2	308	237	0.77	28.6	0.85	0.246	
zI7024-2-11	KU	6.11	1.70	10.28	3.05	2.71	2.88	21.6	2.7	382	228	0.60	10.1	0.80	0.191	
<del>z7024-2-12</del>	<del>Caltech</del>	<del>-5.14</del>	<del>-1.43</del>	<del>-5.14</del>	<del>-1.43</del>	<del>-1.43</del>	<del>-1.43</del>	<del>36.1</del>	<del>3.6</del>	<del>358</del>	<del>228</del>	<del>0.64</del>	<del>5.6</del>	<del>0.76</del>	<del>0.203</del>	initial set-up
<del>z7024-2-13</del>	<del>Caltech</del>	<del>4.46</del>	<del>1.25</del>	<del>6.68</del>	<del>2.17</del>	<del>1.70</del>	<del>1.94</del>	<del>33.8</del>	<del>3.5</del>	<del>264</del>	<del>173</del>	<del>0.65</del>	<del>5.5</del>	<del>0.77</del>	<del>0.208</del>	initial set-up
z7024-2-15	Caltech	1.08	0.30	1.67	0.44	0.48	0.46	31.1	4.2	367	258	0.70	11.0	0.81	0.224	
z7024-2-17	Caltech	2.15	0.60	3.58	0.84	1.08	0.96	29.0	3.4	354	210	0.59	7.6	0.79	0.190	
z7024-2-18	Caltech	3.80	1.06	6.50	1.48	1.99	1.74	22.7	2.2	252	168	0.67	7.5	0.78	0.213	
z7024-2-19	Caltech	1.95	0.54	2.88	0.93	0.75	0.84	37.9	4.4	327	208	0.64	13.1	0.82	0.203	
z7024-2-20	Caltech	0.95	0.27	1.52	0.42	0.43	0.42	21.3	1.9	471	338	0.72	10.2	0.81	0.229	
z7024-2-21	Caltech	2.16	0.60	3.55	1.13	0.89	1.01	20.0	2.5	205	124	0.60	37.2	0.87	0.193	
z7024-2-22	Caltech	2.71	0.76	4.12	1.21	1.11	1.16	30.0	2.9	259	187	0.72	9.5	0.80	0.230	
z7024-2-23	Caltech	4.64	1.30	7.05	2.31	1.79	2.05	26.1	1.6	446	322	0.72	6.2	0.77	0.231	
z7024X-1	Caltech	2.89	0.81	4.90	1.15	1.53	1.34	25.6	2.3	256	159	0.62	20.6	0.84	0.198	
z7024X-2	Caltech	1.00	0.28	1.64	0.43	0.47	0.45	25.6	2.3	414	253	0.61	20.6	0.84	0.195	
z7024X-3	Caltech	3.42	0.95	5.12	1.75	1.30	1.53	25.6	2.3	240	177	0.73	24.8	0.86	0.234	

analytical errors stated at 1 $\sigma$ 

KU = He mass spectrometry at University of Kansas, Caltech = He mass spectrometry at California Institute of Technology

strikethrough = excluded (see comment)

$$D_{230} = [(Th/U)_{\text{zircon}} / (Th/U)_{\text{whole-rock}}] \times (230\text{Th}) / (238\text{U})_{\text{whole-rock}}$$

$$D_{231} = 3 \text{ (Schmitt, 2007)}$$

Decay constants used:  $\lambda_{230}$ :  $9.1577 \cdot 10^{-6} \text{ a}^{-1}$ ;  $\lambda_{232}$ :  $4.9475 \cdot 10^{-11} \text{ a}^{-1}$ ;  $\lambda_{238}$ :  $1.55125 \cdot 10^{-10} \text{ a}^{-1}$

Table DR3:  $^{14}\text{C}$  age compilation for Obsidian Buttes artifacts

Site	Maximum age	Minimum age	n artifacts	Source	Reference
SRI-3	BCE 6350	BCE 410	1	Coso	Rick et al. (2001)
SRI-4	BCE 5450	BCE 150	2	Coso	Rick et al. (2001)
SRI-147	BCE 5450	BCE 3630	1	Coso	Rick et al. (2001)
SMI-1	BCE 5150	BCE 1300	5	Coso	Rick et al. (2001)
SMI-172	BCE 4490	BCE 4320	6	Coso	Rick et al. (2001)
SNI-351	BCE 3920	1260	1	Coso	Rick et al. (2001)
SMI-172	BCE 3490	BCE 3320	2	Coso	Rick et al. (2001)
SNI-168	BCE 2890	1640	1	Coso	Rick et al. (2001)
SNI-171	BCE 2100	BCE 300	1	Coso	Rick et al. (2001)
SNI-8	BCE 1880	BCE 1690	1	Coso	Rick et al. (2001)
SCRI-240	BCE 1260	1450	1	Coso	Rick et al. (2001)
SRI-19	BCE 1010	BCE 740	1	Coso	Rick et al. (2001)
SCRI-1	unknown	BCE 610	1	Other	Rick et al. (2001)
SRI-2	BCE 50	1750	1	Coso	Rick et al. (2001)
SCRI-191	BCE 30	1650	7	Coso	Rick et al. (2001)
SCRI-236	240	1410	2	Coso	Rick et al. (2001)
SCRI-474	420	640	3	Coso	Rick et al. (2001)
SMI-528	470	830	3	Coso	Rick et al. (2001)
SCRI-474	780	1010	2	Coso	Rick et al. (2001)
SRI-9	1270	1440	1	Coso	Rick et al. (2001)
SRI-60	1300	1720	2	Coso	Rick et al. (2001)
SNI-25	1350	1410	1	Coso	Rick et al. (2001)
SMI-163	1630	1680	1	Coso	Rick et al. (2001)
SCI-1487		>1500	1	Obsidian Butte	Rick et al. (2001)
SCI-126		>1500	2	Obsidian Butte	Rick et al. (2001)
SRI-512	BCE 11,355	BCE 12,010	1	Coso	Erlandson et al. (2011)
SDi-2537		>1500	3	Obsidian Butte	McDonald (1992)
SDi-2537		<BCE 2350	4	Obsidian Butte	McDonald (1992)
SDi-2537		>1160	1	Obsidian Butte	McDonald (1992)
SDi-2537	BCE 2350	BCE 1700	1	unknown	McDonald (1992)
SDi-2537		>1450	2	San Felipe	McDonald (1992)
SDi-2537		>750	16	San Felipe	McDonald (1992)
SDi-2537	BCE 2900	1400	2	San Felipe (?)	McDonald (1992)
SDi-2537	BCE 2900	1400	12	Obsidian Butte	McDonald (1992)
SDi-2537	<1450		1	Obsidian Butte	McDonald (1992)
SDi-2537		>1400	5	Obsidian Butte	McDonald (1992)
SDi-10148	BCE 510	640	1	Obsidian Butte	Kyle (1996)
RIV-2936	BCE 180	645	debitage	Coso	Love and Dahdul (2002)
Zaragoza	890	1020	2	Obsidian Butte	Porcayo-Michelini (2006)

all sites with prefix CA except Zaragoza (Baja California, Mexico)

all ages CE (unless indicated) with minimum and maximum ages at  $2\sigma$

absolute ages reported in literature were recalculated to calendric ages using OxCal v. 3.10

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