

## GSA DATA REPOSITORY ITEM

TABLE 2. SHRIMP U-Th-Pb ANALYSES OF TITANITE. ALL UNCERTAINTIES ARE QUOTED AT 1 SIGMA LEVEL

	Common Th/U	Pb (%)	Uncorrected $^{207}\text{Pb}/^{206}\text{Pb}$	Uncorrected $^{238}\text{U}/^{206}\text{Pb}$	$^{206}\text{Pb}/^{238}\text{U}$	Age $^{206}\text{Pb}/^{238}\text{U}$ (Ma)
<u>UHP sample</u>						
DM-1.1	1.72	40	0.4081 $\pm$ 158	108.33 $\pm$ 4.33	0.00552 $\pm$ 27	35.5 $\pm$ 1.8
DM-2.2	1.96	35	0.3614 $\pm$ 113	122.66 $\pm$ 3.68	0.00530 $\pm$ 19	34.1 $\pm$ 1.2
DM-3.1	1.59	23	0.2545 $\pm$ 95	139.52 $\pm$ 3.93	0.00551 $\pm$ 17	35.4 $\pm$ 1.1
DM-5.3	2.18	35	0.3626 $\pm$ 87	120.19 $\pm$ 3.83	0.00537 $\pm$ 19	34.5 $\pm$ 1.2
DM-6.1	1.56	23	0.2575 $\pm$ 103	136.96 $\pm$ 4.44	0.00559 $\pm$ 20	35.9 $\pm$ 1.3
DM-7.1	1.99	20	0.2293 $\pm$ 115	147.94 $\pm$ 4.38	0.00539 $\pm$ 18	34.6 $\pm$ 1.2
DM-8.1	1.70	33	0.3408 $\pm$ 101	120.68 $\pm$ 3.87	0.00558 $\pm$ 20	35.9 $\pm$ 1.3
DM-8.2	1.80	28	0.3010 $\pm$ 152	132.49 $\pm$ 4.30	0.00541 $\pm$ 22	34.8 $\pm$ 1.4
DM-10.1	1.67	27	0.2937 $\pm$ 137	124.54 $\pm$ 5.66	0.00582 $\pm$ 29	37.4 $\pm$ 1.9
DM-11.1	1.95	38	0.3917 $\pm$ 128	116.42 $\pm$ 3.46	0.00529 $\pm$ 20	34.0 $\pm$ 1.3
<u>Inherited cores</u>						
DM-12.1	2.11	39	0.4022 $\pm$ 107	44.48 $\pm$ 1.58	0.01361 $\pm$ 55	87.1 $\pm$ 3.5
DM-5.1	2.34	10	0.1353 $\pm$ 39	59.60 $\pm$ 1.47	0.01515 $\pm$ 38	96.9 $\pm$ 2.4
DM-12.2	2.62	25	0.2676 $\pm$ 79	40.53 $\pm$ 1.28	0.01861 $\pm$ 63	119 $\pm$ 4
DM-31.1	3.05	6	0.1078 $\pm$ 25	28.03 $\pm$ 0.76	0.03343 $\pm$ 91	212 $\pm$ 6
DM-30.1	2.16	3	0.0824 $\pm$ 24	27.52 $\pm$ 0.91	0.03509 $\pm$ 116	222 $\pm$ 7
DM-13.2	8.08	12	0.1618 $\pm$ 31	22.32 $\pm$ 0.55	0.03929 $\pm$ 99	248 $\pm$ 6
DM-5.2	3.13	3	0.0806 $\pm$ 18	24.22 $\pm$ 0.72	0.04000 $\pm$ 119	253 $\pm$ 7
<u>LP sample</u>						
1019-6.1	0.53	25	0.2811 $\pm$ 41	155.96 $\pm$ 3.29	0.00484 $\pm$ 11	31.1 $\pm$ 0.7
1019-5.1	0.72	41	0.3573 $\pm$ 74	122.86 $\pm$ 3.10	0.00477 $\pm$ 14	30.7 $\pm$ 0.9
1019-9.1	0.45	33	0.2920 $\pm$ 93	124.10 $\pm$ 3.29	0.00542 $\pm$ 18	34.9 $\pm$ 1.1
1019-36.1	0.81	58	0.4835 $\pm$ 147	92.21 $\pm$ 3.29	0.00453 $\pm$ 27	29.1 $\pm$ 1.7
1019-32.1	0.73	45	0.3842 $\pm$ 99	114.89 $\pm$ 3.28	0.00478 $\pm$ 27	30.8 $\pm$ 1.1
1019-34.1	0.67	26	0.2400 $\pm$ 41	151.92 $\pm$ 3.27	0.00488 $\pm$ 11	31.4 $\pm$ 0.7
1019-27.1	0.79	53	0.4435 $\pm$ 125	93.36 $\pm$ 2.73	0.00504 $\pm$ 23	32.4 $\pm$ 1.5
1019-29.2	0.74	34	0.3047 $\pm$ 67	128.54 $\pm$ 2.87	0.00510 $\pm$ 51	32.8 $\pm$ 0.9
1019-21.2	0.47	28	0.2598 $\pm$ 117	148.39 $\pm$ 4.73	0.00482 $\pm$ 19	31.0 $\pm$ 1.2
1019-21.3	0.39	25	0.2363 $\pm$ 36	152.74 $\pm$ 2.45	0.00489 $\pm$ 8	31.5 $\pm$ 0.5
1019-18.2	0.57	31	0.2795 $\pm$ 67	141.63 $\pm$ 3.77	0.00487 $\pm$ 14	31.3 $\pm$ 0.9
1019-33.1	0.63	30	0.2689 $\pm$ 64	137.57 $\pm$ 3.18	0.00511 $\pm$ 13	32.9 $\pm$ 0.9
1019-6.3	0.74	36	0.3175 $\pm$ 72	125.56 $\pm$ 2.65	0.00509 $\pm$ 13	32.7 $\pm$ 0.8
1019-5.2	0.70	44	0.3796 $\pm$ 69	115.79 $\pm$ 2.63	0.00480 $\pm$ 13	30.9 $\pm$ 0.9
<u>HP domains</u>						
1019-6.2	0.60	32	0.2843 $\pm$ 85	130.66 $\pm$ 4.24	0.00523 $\pm$ 19	33.6 $\pm$ 1.2
1019-36.2	0.49	28	0.2565 $\pm$ 60	137.48 $\pm$ 3.12	0.00524 $\pm$ 13	33.7 $\pm$ 0.9
1019-32.2	0.70	40	0.3485 $\pm$ 92	121.24 $\pm$ 4.22	0.00493 $\pm$ 20	31.7 $\pm$ 1.3
1019-34.2	0.61	25	0.2368 $\pm$ 50	148.68 $\pm$ 3.23	0.00502 $\pm$ 12	32.3 $\pm$ 0.8
1019-29.1	0.84	41	0.3554 $\pm$ 112	112.66 $\pm$ 3.33	0.00522 $\pm$ 20	33.6 $\pm$ 1.3
1019-21.1	0.70	53	0.4458 $\pm$ 128	91.12 $\pm$ 2.75	0.00513 $\pm$ 24	33.0 $\pm$ 1.6
1019-18.1	0.42	23	0.2188 $\pm$ 56	149.45 $\pm$ 3.48	0.00515 $\pm$ 13	33.1 $\pm$ 0.8
<u>Inherited cores</u>						
1019-27.3	3.36	20	0.1987 $\pm$ 37	37.86 $\pm$ 1.40	0.02112 $\pm$ 79	135 $\pm$ 5
1019-27.2	4.13	10	0.1264 $\pm$ 29	24.99 $\pm$ 0.75	0.03596 $\pm$ 109	228 $\pm$ 7