

SHRIMP data acquisition logsheet

SHRIMP A or B

Zircon or Titanite

Date	Sample/Mount(s)	Sample owner	SH operator	Night-runner(s)
24/10/11	11-29	AISRF	MeN	Serena

Deadtime.....25.....ns Kohler aperture.....100..... Retard.....14.4.....volts Resoln.....5282.....

Primary O₂ on: epoxynA standardnA PostESA BM on std

Raster: Time (mins)2..... Aperture120..... No. of scans6.....

Zircon/Badd.	196	204	Bk	206	207	208	238	248	254
Count time (secs)	2	10	10	10/20	30/40	10	5	5	2
Delay time (secs)	8	4	2	4	2	2	3	3	3
Peak centring time (secs)	3	-	-	6	-	-	3	3	2
Titanite	200*	204	Bk	206	207	208	248	254	270
Count time (secs)	2	10	10	10/20	30/10	5	5	5	7
Delay time (secs)	8	3	2	4	2	2	4	3	3
Peak centring time (secs)	3	-	-	6	-	-	2	3	3

Offsets					
Zircon/Badd.	196-204	204-Bk	204-206	206-207	206-208
Expected offset	8.170	0.040	2.001/9	1.001/5	2.001/9
Setup offsets	8.160	.040	~2.005	1.004	2.006
Titanite	200*-204	204-Bk	204-206	206-207	206-208
Expected offset	4.136	0.040	2.001/9	1.001/5	2.001/9
Setup offsets					

Standards

Zircon: BR266 206/238 age = 559 Ma; 903 ppm U
 TEM2 206/238 age = 416.78+/-0.33 Ma; U = variable
 OGC-1 207/206 age = 3467+/-3 Ma; U = variable
 CZ3 206/238 age = 561.5 Ma; 551 ppm U
 M257 206/238 age = 561.3 Ma; 840 ppm U

Titanite: Khan 206/238 age = 522.2 Ma; 700 ppm U
 ORBA 207/206 age = 2687+/-5 Ma; 150-220 ppm U (ave = 188 ppm)

* Titanite reference peak for m/z 200 is a doublet: use low-mass peak.

Filename	Time	UO/U	196	206	f206	U	Sensit-	Age/Ma	Age/Ma	SBM
		254/238	Kcps	-cps-	(%)	ppm	ivity	206/238	207/206	(%)
Alternatives		UO2/UO	Ref.			254/270		Pb/U ratio	207/206	
		270/254	Kcps			Kcps				
BR. 1-1	9:38	6.94	10	2300	-	903	26.4	559 ± 6	563 ± 16	2.0
BR. 1-2	9:58	6.7	10	2100	-	915	25.3	542 ±	601 ±	1.5
OGC. 1-1	10:23	6.8	12	4100	.03	181	26.0	3410 ± 41	3466 ± 6	~1
BR. 2-1	10:42	6.64	13	2900	.02	948	25.6	558 ± 4	555 ± 22	1.9
OGC. 2-1	11:02	6.50	13	3100	.45	151	25.9	3104 ± 29	3455 ± 10	1.7
A. 1-1	11:24	7.23	12	5900	.02	477	27.9	1975 ± 13	2489 ± 9	2.0
A. 2-1	11:53	6.55	13	2600	-	163	27.1	2492 ± 23	2567 ± 9	1.8
A. 3-1	12:19	6.68	12	5700	.02	510	26.3	1906 ± 75	2326 ± 242	1.2
BR. 1-3 1-3	12:38	7.00	11	2500	.05	937	24.9	547 ± 4	554 ± 20	1.3
A. 4-1	13:01	6.60	12	6200	-	452	24.0	2383 ± 16	2536 ± 8	2.3
A. 5-1	13:28	6.71	12	5500	.23	448	24.5	2178 ± 18	2524 ± 8	1.4
A. 6-1	14:12	6.77	12	3400	.04	238	25.7	2394 ± 21	2545 ± 9	1.1
A. 7-1	14:33	6.99	12	2200	.07	147	26.5	2454 ± 30	2551 ± 11	0.9
BR. 2-2	14:52	7.12	11	2600	.00	957	25.7	565 ± 4	564 ± 18	1.7
A. 8-1	15:25	6.95	11	4200	.33	393	25.6	1871 ± 16	2437 ± 8	0.9
B. 1-1	16:37	6.66	12	2200	-	145	25.9	2430 ± 32	2572 ± 9	2.3
B. 2-1	16:59	6.79	12	2400	.08	176	25.6	2277 ± 36	2512 ± 14	2.2
B. 3-1	17:19	6.53	12	2500	.03	171	24.7	2590 ± 26	2550 ± 8	2.3
B. 4-1	17:47	6.74	12	3000	.30	207	25.4	2428 ± 32	2573 ± 9	0.8
BR. 3-1	18:07	6.61	13	2700	-	942	25.0	555 ± 3	576 ± 17	2.1
B. 5-1	18:30	6.67	13	2000	.49	136	27.1	2311 ± 32	2544 ± 19	2.3
B. 6-1	18:50	6.67	12	2500		169	25.9	2474 ± 22	2576 ± 8	1.7
B. 7-1	19:30	6.77	12	1200	.18	83	25.5	2452 ± 32	2532 ± 14	1.2
B. 7-2	19:50	6.59	12	2600	.04	178	23.9	2554 ± 32	2554 ± 9	0.7
B. 8-1	20:16	6.19	12	3300	.05	233	23.6	2510 ± 21	2572 ± 8	1.2
BR. 4-1	21:03	6.77	12	2600	-	907	26.1	557 ± 3	551 ± 18	0.8
B. 9-1	21:41	6.63	12	1600	-	105	25.6	2572 ± 29	2559 ± 12	1.2
B. 10-1	22:07	6.70	12	2800	.25	193	26.4	2384 ± 20	2552 ± 10	1.6
C. 1-1	22:54	6.97	12	3500	.16	240	26.8	2339 ± 18	2562 ± 7	1.3
C. 2-1	23:46	6.46	11	2900	.22	263	22.7	2093 ± 18	2545 ± 11	1.8
BR. 5-1	00:40	6.51	12	2500	.02	903	25.3	550 ± 2	571 ± 16	1.3
BR. 5-2	01:00	6.60	12	2500	-	921	23.5	560 ± 3	602 ± 17	2.3
BR. 5-3	01:19	6.29	13	2500	.01	884	23.8	571 ± 5	579 ± 20	1.8
BR. 5-4	01:38	6.44	11	2400	.03	922	22.0	566 ± 3	584 ± 17	2.0
BR. 5-5	01:58	6.54	11	2400	-	934	21.8	571 ± 4	570 ± 24	1.5
BR. 5-6	02:17	6.52	11	2400	.01	941	21.8	567 ± 4	556 ± 19	1.6

NOT USED

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Offsets: 196-204 = 8.160 204-Bkg = .040 204-206 = ~2.005 206-207 = 1.004 206-208 = 2.006

⊗ Re-fermed 1°.

