

TABLE S8: SLF LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Composition										Ages							
Zircon #	U (ppm)	206Pb/204Pb	U/Th	206Pb/207Pb	2σ (%)	207Pb/235U	2σ (%)	206Pb/238U	2σ (%)	Error Corr.	206Pb/238U	2σ (Ma)	207Pb/235U	2σ (Ma)	206Pb/207Pb	2σ (Ma)	% Disc.
SLF no CA Run 1																	
SLF-1	611	38849	5.42	16.778	1.5	0.7420	3.4	0.09034	3.1	0.897	557.5	16.3	563.6	14.8	588.2	32.7	5.2
SLF-10	663	36208	5.34	17.240	1.8	0.7455	2.8	0.09326	2.2	0.782	574.8	12.1	565.6	12.2	529.0	38.5	-8.6
SLF-11	492	53756	5.75	17.079	1.8	0.7564	3.0	0.09373	2.4	0.805	577.5	13.1	571.9	12.9	549.6	38.2	-5.1
SLF-12	619	18611	5.53	17.891	4.5	0.7242	6.9	0.09401	5.2	0.756	579.2	29.1	553.1	29.6	447.2	101.0	-29.5
SLF-13	664	826559	5.63	16.722	1.4	0.7341	2.7	0.08907	2.3	0.858	550.1	12.0	559.0	11.4	595.4	29.6	7.6
SLF-14	662	24288	5.52	17.077	1.8	0.7371	3.3	0.09134	2.8	0.842	563.4	15.1	560.7	14.4	549.8	39.2	-2.5
SLF-15	657	44438	5.65	17.097	1.8	0.7272	3.2	0.09021	2.6	0.821	556.8	13.9	554.9	13.6	547.3	39.7	-1.7
SLF-2	729	32676	5.42	16.604	1.8	0.7643	3.0	0.09208	2.4	0.801	567.8	12.9	576.5	13.0	610.7	38.2	7.0
SLF-3	749	18647	5.71	17.138	1.4	0.7216	3.0	0.08974	2.7	0.889	554.0	14.1	551.6	12.7	542.0	29.8	-2.2
SLF-4	720	1214081	5.55	17.025	1.4	0.7428	2.8	0.09175	2.4	0.866	565.9	12.9	564.0	11.9	556.5	30.1	-1.7
SLF-5	447	37822	6.15	17.069	1.4	0.7512	2.8	0.09304	2.4	0.858	573.5	13.0	568.9	12.1	550.8	31.1	-4.1
SLF-6	706	38805	5.55	17.004	2.5	0.7290	3.2	0.08995	2.0	0.636	555.2	10.9	556.0	13.8	559.1	54.0	0.7
SLF-7	769	34045	5.74	17.014	1.5	0.7157	2.9	0.08836	2.4	0.840	545.8	12.6	548.1	12.1	557.9	33.8	2.2
SLF-8	683	272125	5.58	16.923	1.3	0.7397	2.8	0.09082	2.5	0.878	560.4	13.3	562.2	12.2	569.5	29.4	1.6
SLF-9	621	37397	5.53	17.322	1.8	0.7259	3.5	0.09123	3.0	0.857	562.8	16.1	554.1	14.9	518.6	39.3	-8.5
SLF no CA Run 2																	
SLF 1	653	951426	6.06	16.941	2.6	0.7405	4	0.09102	3.1	0.771	561.6	16.7	562.7	17.4	567.2	55.7	1.0
SLF 10	624	278758	6.19	16.977	2.2	0.7458	3.2	0.09187	2.3	0.725	566.6	12.5	565.8	13.8	562.5	47.9	-0.7
SLF 11	619	390017	5.89	16.878	1.6	0.7403	2.9	0.09066	2.5	0.84	559.4	13.2	562.6	12.6	575.3	34.6	2.8
SLF 12	607	320847	6.27	17.016	2.3	0.7381	3.4	0.09113	2.6	0.749	562.2	13.8	561.3	14.7	557.5	49.4	-0.8
SLF 13	576	78280	6.07	17.008	2.1	0.7351	3.5	0.09072	2.8	0.795	559.8	14.8	559.6	15	558.6	46	-0.2
SLF 14	583	121680	6.18	17.063	2.5	0.7334	3.8	0.0908	2.9	0.766	560.3	15.7	558.6	16.4	551.6	53.6	-1.6
SLF 15	586	1945445	6.07	17.041	2.2	0.7484	4	0.09253	3.4	0.846	570.5	18.7	567.3	17.6	554.3	47.1	-2.9
SLF 16	482	265069	6.31	16.972	2.4	0.7333	3.3	0.09031	2.3	0.697	557.4	12.3	558.5	14.2	563.2	51.8	1.0
SLF 17	570	368921	6.24	17.104	2.1	0.7335	3.1	0.09104	2.3	0.745	561.7	12.6	558.6	13.5	546.3	45.8	-2.8
SLF 18	588	1069555	5.93	16.97	1.7	0.7401	3.1	0.09113	2.6	0.842	562.2	14.1	562.4	13.5	563.5	36.6	0.2
SLF 19	600	6227305	5.83	17.126	2.1	0.7383	3.1	0.09174	2.4	0.75	565.8	12.8	561.4	13.5	543.4	45.5	-4.1
SLF 2	538	338080	5.83	16.963	1.7	0.7329	2.5	0.09021	1.8	0.74	556.8	9.7	558.3	10.6	564.3	36	1.3
SLF 20	623	146763	6.18	17.062	1.5	0.7402	2.6	0.09164	2.1	0.812	565.2	11.4	562.5	11.2	551.6	33.2	-2.5
SLF 21	603	637360	6.18	16.924	2.2	0.7377	3.1	0.09059	2.2	0.714	559	12	561.1	13.5	569.3	47.8	1.8
SLF 22	581	415108	6.14	17.018	2.4	0.7345	3.7	0.09069	2.8	0.767	559.6	15.1	559.2	15.8	557.3	51.4	-0.4
SLF 23	571	1005130	6.14	17.075	2.5	0.7386	3.2	0.09151	2	0.622	564.5	10.7	561.6	13.8	550	54.7	-2.6
SLF 24	619	223195	6.04	16.849	2.3	0.7453	3.5	0.09111	2.6	0.754	562.1	14.1	565.5	15.1	579	49.8	2.9
SLF 25	541	510381	5.98	16.861	2.2	0.7475	2.8	0.09145	1.7	0.622	564.1	9.4	566.8	12.1	577.5	47.5	2.3
SLF 26	586	1686134	6.19	17.106	1.7	0.7325	2.9	0.09092	2.4	0.811	561	12.8	558	12.6	546	37.6	-2.7
SLF 27	585	184158	5.96	17.091	1.8	0.7328	3	0.09088	2.4	0.804	560.7	13	558.2	12.9	548	39.1	-2.3
SLF 28	643	247904	6.3	16.932	1.8	0.74	3.1	0.09091	2.5	0.81	560.9	13.5	562.4	13.4	568.4	39.4	1.3
SLF 29	640	302715	5.95	17.053	2.3	0.734	3.4	0.09082	2.5	0.744	560.4	13.6	558.9	14.7	552.8	49.7	-1.4
SLF 3	612	126413	6.13	17.152	2.2	0.7206	3.5	0.08969	2.8	0.785	553.7	14.7	551	15	540.1	47.8	-2.5
SLF 30	597	1137341	6.11	17.046	1.9	0.7362	3.6	0.09106	3	0.848	561.8	16.2	560.2	15.3	553.6	41.1	-1.5
SLF 4	626	349860	6.12	17.133	2.3	0.7344	3.6	0.0913	2.7	0.772	563.2	14.8	559.1	15.3	542.6	49.4	-3.8
SLF 5	700	218098	6.02	16.872	2	0.7462	3.2	0.09135	2.4	0.77	563.5	13.2	566	13.8	576	44.1	2.2
SLF 6	536	16322853	5.91	17.074	2.2	0.7347	3.4	0.09102	2.5	0.752	561.6	13.6	559.3	14.4	550.1	48.2	-2.1
SLF 7	602	1481454	6.14	16.922	2.4	0.7417	3.2	0.09107	2.1	0.657	561.9	11.5	563.4	14	569.6	53.2	1.4
SLF 8	489	250616	6.35	17.058	2	0.728	3.4	0.0901	2.7	0.805	556.1	14.4	555.4	14.4	552.2	43.4	-0.7
SLF 9	649	688740	6.05	17.075	1.9	0.7396	3	0.09164	2.3	0.766	565.2	12.3	562.2	12.8	550	41.4	-2.8
Composition										Ages							
Zircon #	U (ppm)	206Pb/204Pb	U/Th	206Pb/207Pb	2σ (%)	207Pb/235U	2σ (%)	206Pb/238U	2σ (%)	Error Corr.	206Pb/238U	2σ (Ma)	207Pb/235U	2σ (Ma)	206Pb/207Pb	2σ (Ma)	% Disc.
SLF CA Run 1																	
SLM-1	1080	170477	5.50	17.003	2.3	0.7299	3.8	0.09005	3.0	0.793	555.8	15.9	556.5	16.1	559.2	50.0	0.6
SLM-3	945	38391	5.08	17.253	1.6	0.7217	3.5	0.09034	3.1	0.885	557.6	16.7	551.7	15.1	527.3	36.1	-5.7
SLM-4	995	37284	5.30	16.879	1.8	0.7551	3.2	0.09247	2.7	0.838	570.1	14.7	571.2	14.0	575.2	38.1	0.9
SLM-5	212	6968	4.92	17.427	2.8	0.7045	3.8	0.08909	2.5	0.667	550.1	13.3	541.5	15.9	505.4	62.1	-8.9
SLM-6	1024	8237	5.54	17.287	1.7	0.7113	3.3	0.08922	2.8	0.863	550.9	15.0	545.5	13.9	523.0	36.4	-5.3
SLM-8	943	33885	5.44	16.858	2.1	0.7397	3.3	0.09048	2.5	0.765	558.4	13.5	562.2	14.2	577.8	46.0	3.4
SLM-7	1026	38414	5.06	16.913	2.0	0.7395	3.1	0.09076	2.3	0.757	560.0	12.6	562.1	13.4	570.7	44.0	1.9
SLM-10	726	109262	5.23	16.873	2.8	0.7263	4.2	0.08892	3.1	0.744	549.2	16.3	554.4	17.8	576.0	60.5	4.7
SLM-9	387	47428	5.75	16.719	2.3	0.7605	3.9	0.09226	3.2	0.811	568.9	17.3	574.3	17.2	595.8	49.7	4.5
SLM-11	1034	38532	5.21	17.403	2.0	0.7355	3.5	0.09288	2.9	0.827	572.5	15.8	559.8	15.0	508.3	43.1	-12.6
SLM-12	1057	37831	5.25	17.019	2.1	0.7348	3.0	0.09074	2.0	0.691	559.9	11.0	559.4	12.8	557.2	46.8	-0.5
SLM-13	966	16653	5.25	17.079	2.1	0.7446	3.2	0.09227	2.4	0.760	568.9	13.3	565.1	13.9	549.6	45.5	-3.5
SLM-14	907	3859958	5.12	16.646	2.0	0.7454	3.6	0.09003	3.0	0.833	555.7	16.1	565.5	15.7	605.3	43.4	8.2
SLM-2	969	56602	5.42	17.844	4.5	0.7276	8.9	0.09421	7.7	0.862	580.4	42.6	555.2	38.1	453.0	100.2	-28.1
SLM-15																	

SLF 20	1017	5946153	5.23	17.031	2	0.7359	3	0.09094	2.2	0.741	561.1	12	560	13	555.6	44.1	-1.0
SLF 21	1092	531644	5.15	16.999	2.1	0.724	2.8	0.0893	1.8	0.658	551.4	9.8	553	12	559.8	46.1	1.5
SLF 22	1230	372277	5.18	16.849	1.6	0.7311	2.5	0.08938	1.9	0.766	551.9	10.1	557.2	10.7	579	34.8	4.7
SLF 23	1073	17192905	4.92	17.004	1.9	0.7237	2.6	0.08929	1.9	0.711	551.3	9.9	552.8	11.2	559	40.4	1.4
SLF 24	1084	107781	5.37	17.061	2.5	0.726	3.2	0.08988	2	0.62	554.8	10.6	554.2	13.8	551.8	55.3	-0.5
SLF 25	1089	443708	5.24	16.902	2	0.7351	3.1	0.09015	2.4	0.767	556.4	12.8	559.5	13.4	572.1	43.6	2.7
SLF 26	1102	332810	5.32	16.878	2.2	0.738	3.2	0.09038	2.4	0.735	557.8	12.7	561.2	14	575.2	47.9	3.0
SLF 27	1090	290796	5.23	16.965	2.7	0.7356	3.2	0.09054	1.7	0.534	558.8	9	559.8	13.6	564.1	58.1	0.9
SLF 28	1172	168079	5.11	17.111	2.3	0.7315	3.1	0.09082	2.1	0.671	560.4	11.2	557.4	13.3	545.4	50.3	-2.8
SLF 29	869	304201	5.28	17.069	2	0.7301	3.4	0.09043	2.8	0.817	558.1	14.9	556.6	14.6	550.7	42.8	-1.3
SLF 3	1092	229942	5.29	17.063	1.8	0.7437	2.6	0.09207	1.9	0.73	567.8	10.4	564.5	11.3	551.5	39.1	-3.0
SLF 30	1088	726344	4.97	17.125	1.7	0.747	2.6	0.09282	2	0.764	572.2	10.7	566.5	11.1	543.6	36.2	-5.3
SLF 4	1108	366780	5.16	17.165	2	0.7319	3.2	0.09116	2.5	0.779	562.4	13.3	557.7	13.6	538.4	43.5	-4.5
SLF 5	1080	213426	5.11	16.926	1.6	0.74	2.5	0.09089	1.9	0.76	560.8	10.2	562.4	10.8	569.2	35.2	1.5
SLF 6	871	165674	5.27	17.093	1.7	0.7309	3	0.09065	2.5	0.825	559.4	13.5	557.1	13.1	547.7	37.6	-2.1
SLF 7	1171	19047346	5.22	16.922	1.6	0.7331	2.7	0.09001	2.1	0.801	555.6	11.3	558.4	11.4	569.7	34.7	2.5
SLF 8	1046	204365	5.13	16.885	1.7	0.7463	2.8	0.09144	2.3	0.797	564	12.2	566.1	12.3	574.4	37.3	1.8
SLF 9	1106	1899868	5.28	17.017	1.4	0.7351	2.3	0.09076	1.8	0.796	560	9.8	559.5	9.9	557.5	30.4	-0.4