



Supplement of

Minimizing the effects of Pb loss in detrital and igneous U–Pb zircon geochronology by CA-LA-ICP-MS

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Primary and Secondary Reference Material LA-ICPMS and CA-LA-ICPMS Data

This section consists of one-page summaries (Figs. S1-S13) for each primary and secondary reference material analyzed in this study. The summaries include rank order plots of the weighted means for each run in both the treated and untreated aliquots. Concordia diagrams show all runs for treated and untreated aliquots. Finally, each one-page summary includes example CL images for comparison of treated and untreated aliquots.

All raw data for concordant and discordant U-Pb zircon geochronology is included in Tables S1-S13 in this section.

Figure S14 shows all of the reference materials from the round robin study plotted against ^{238}U cps normalized to SLF. Please see the manuscript text and the below section (Fig. S15) for detailed description of how data was normalized to SLF ^{238}U cps.

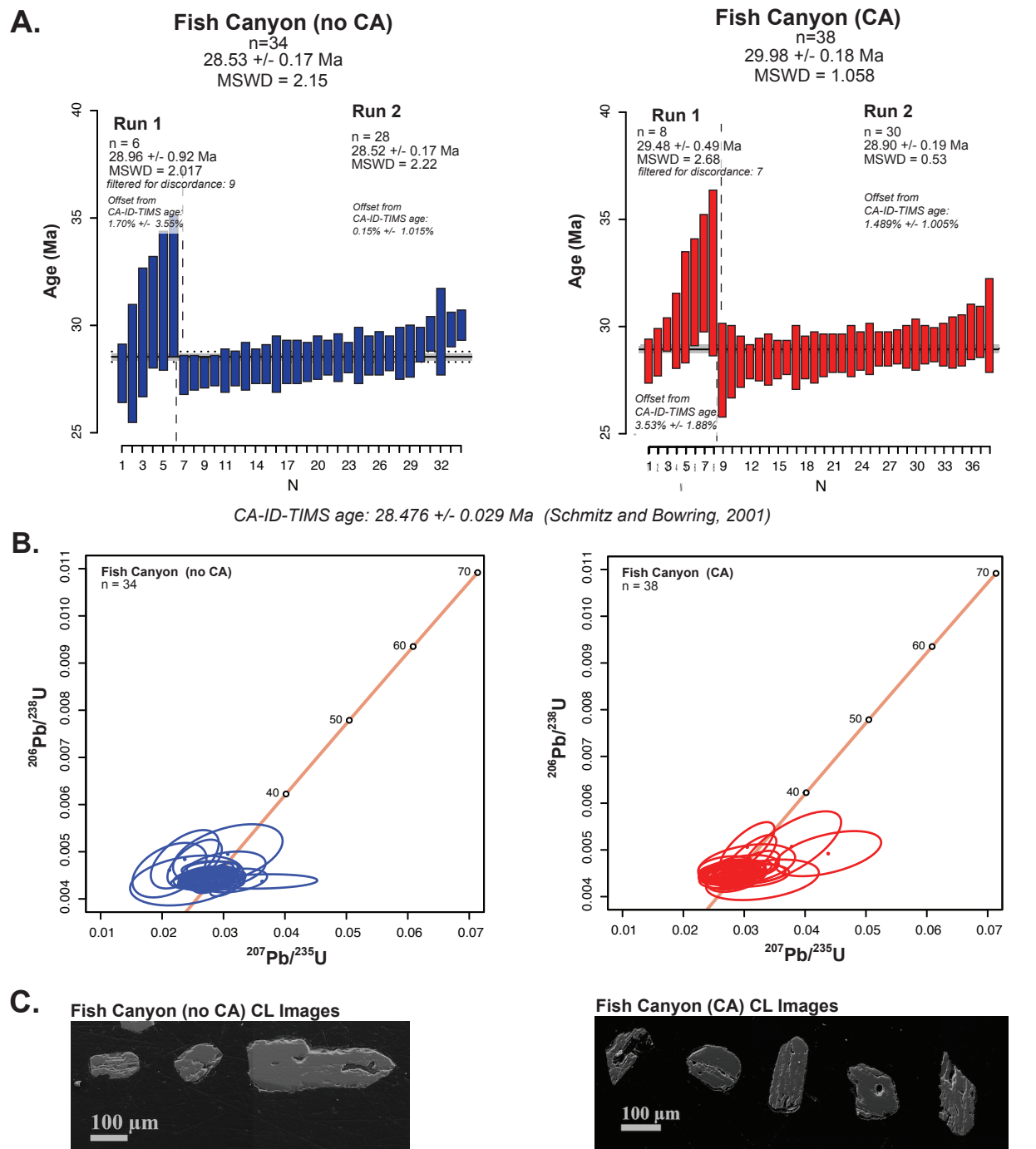


Figure S1. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material Fish Canyon. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of Fish Canyon. **C.** Example CL images of treated and untreated aliquots of Fish Canyon.

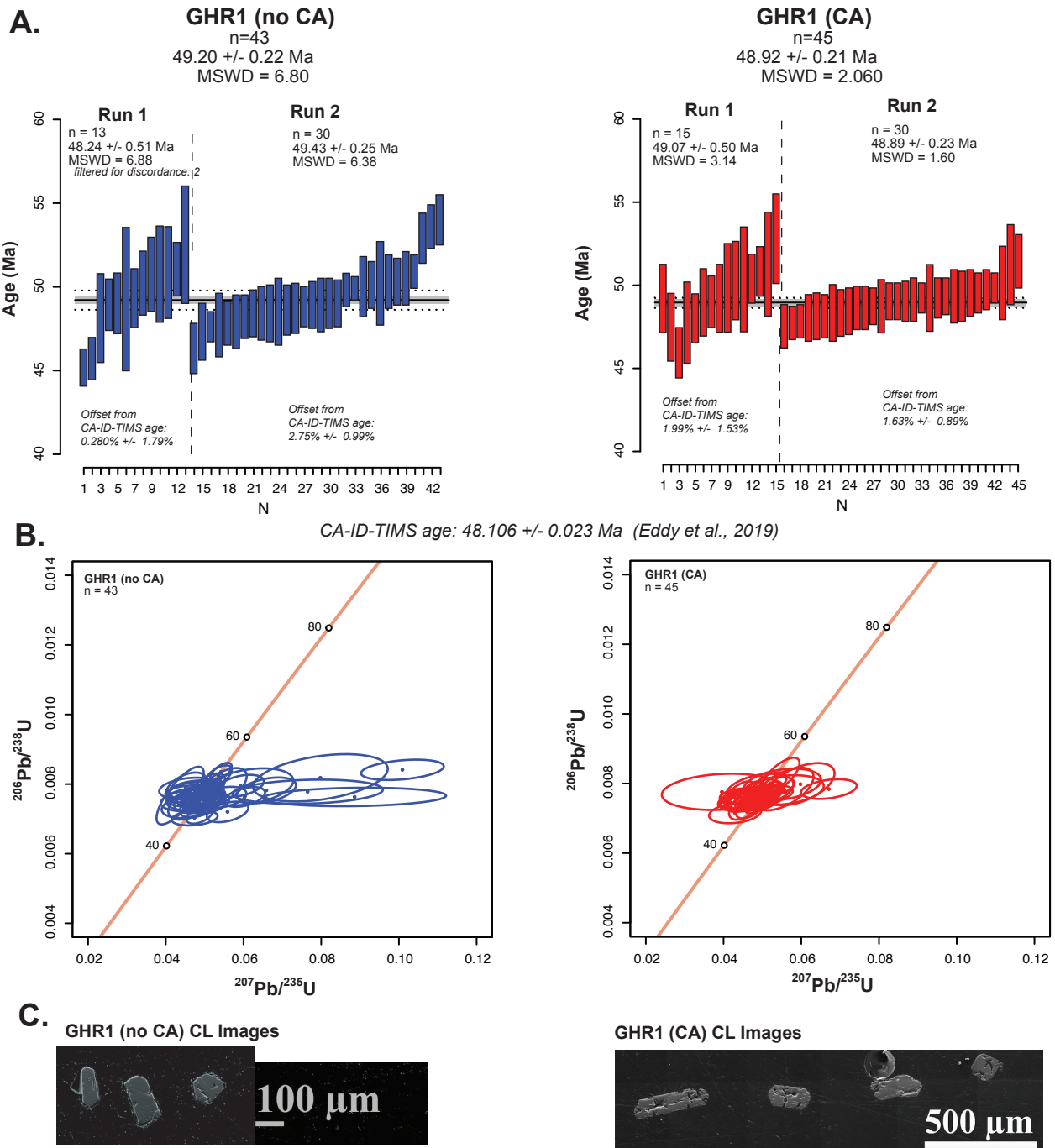


Figure S2. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material GHR1. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of GHR1. **C.** Example CL images of treated and untreated aliquots of GHR1.

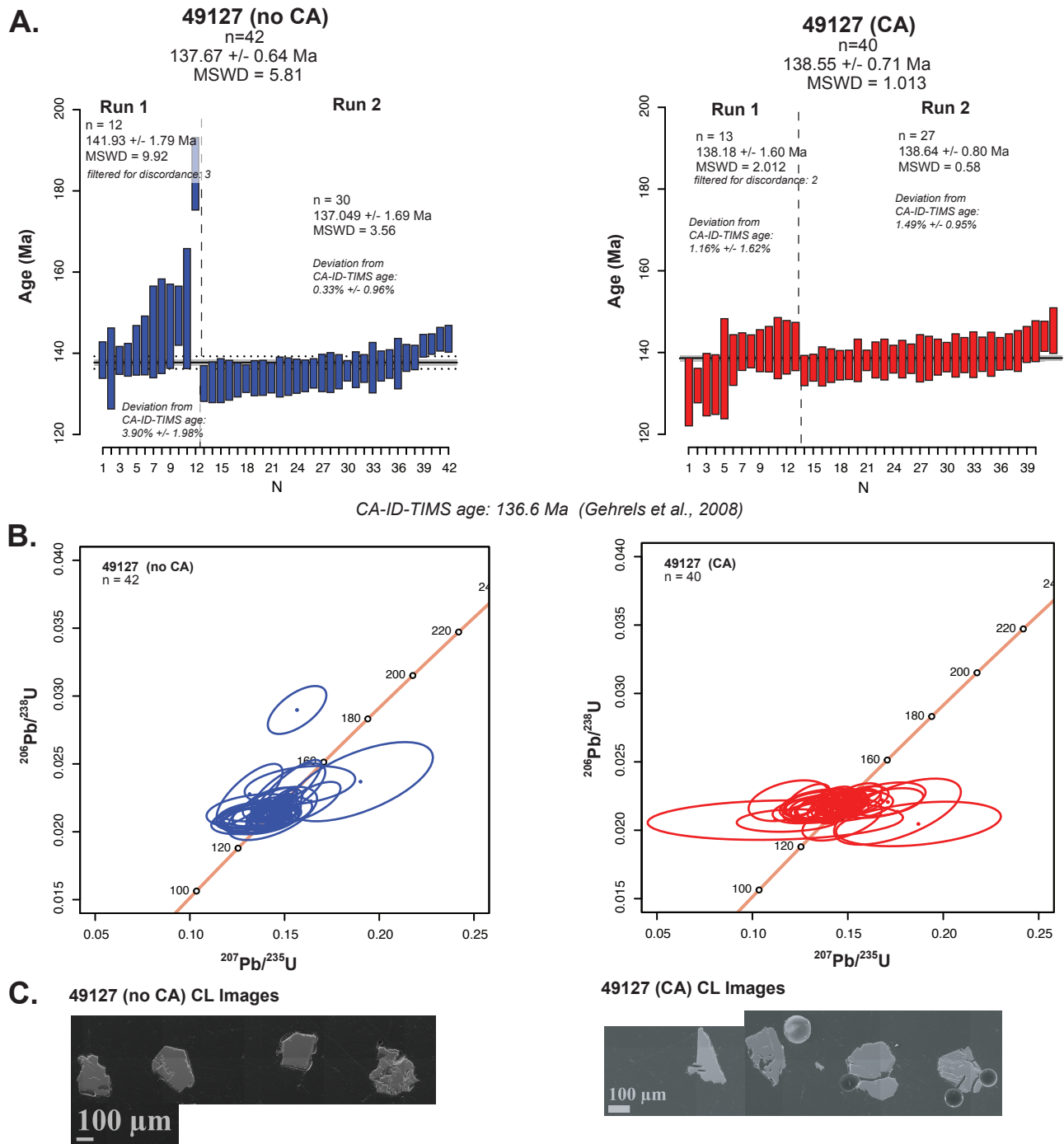


Figure S3. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material 49127. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of 49127. **C.** Example CL images of treated and untreated aliquots of 49127.

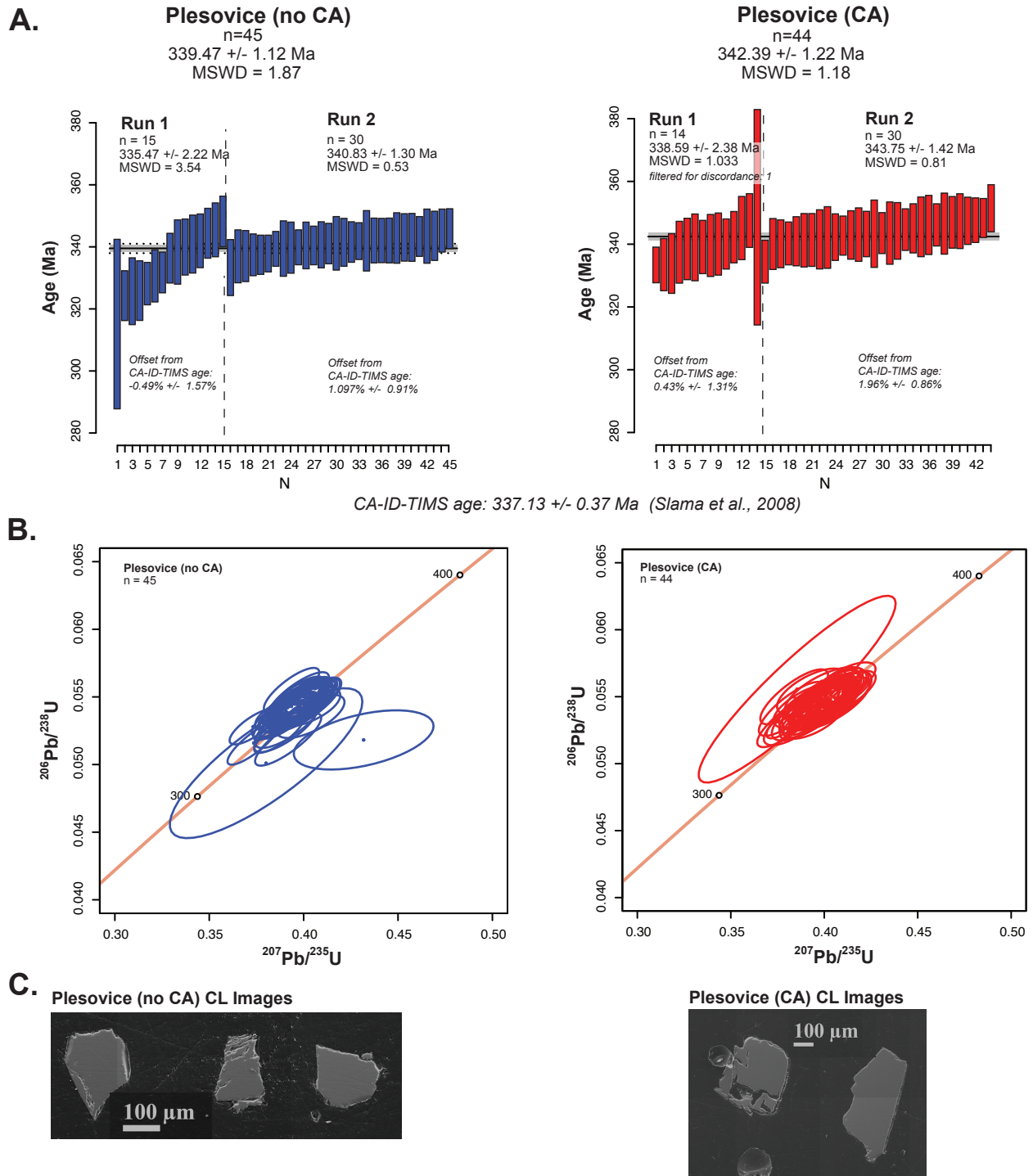


Figure S4. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material Plesovice. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of Plesovice. **C.** Example CL images of treated and untreated aliquots of Plesovice.

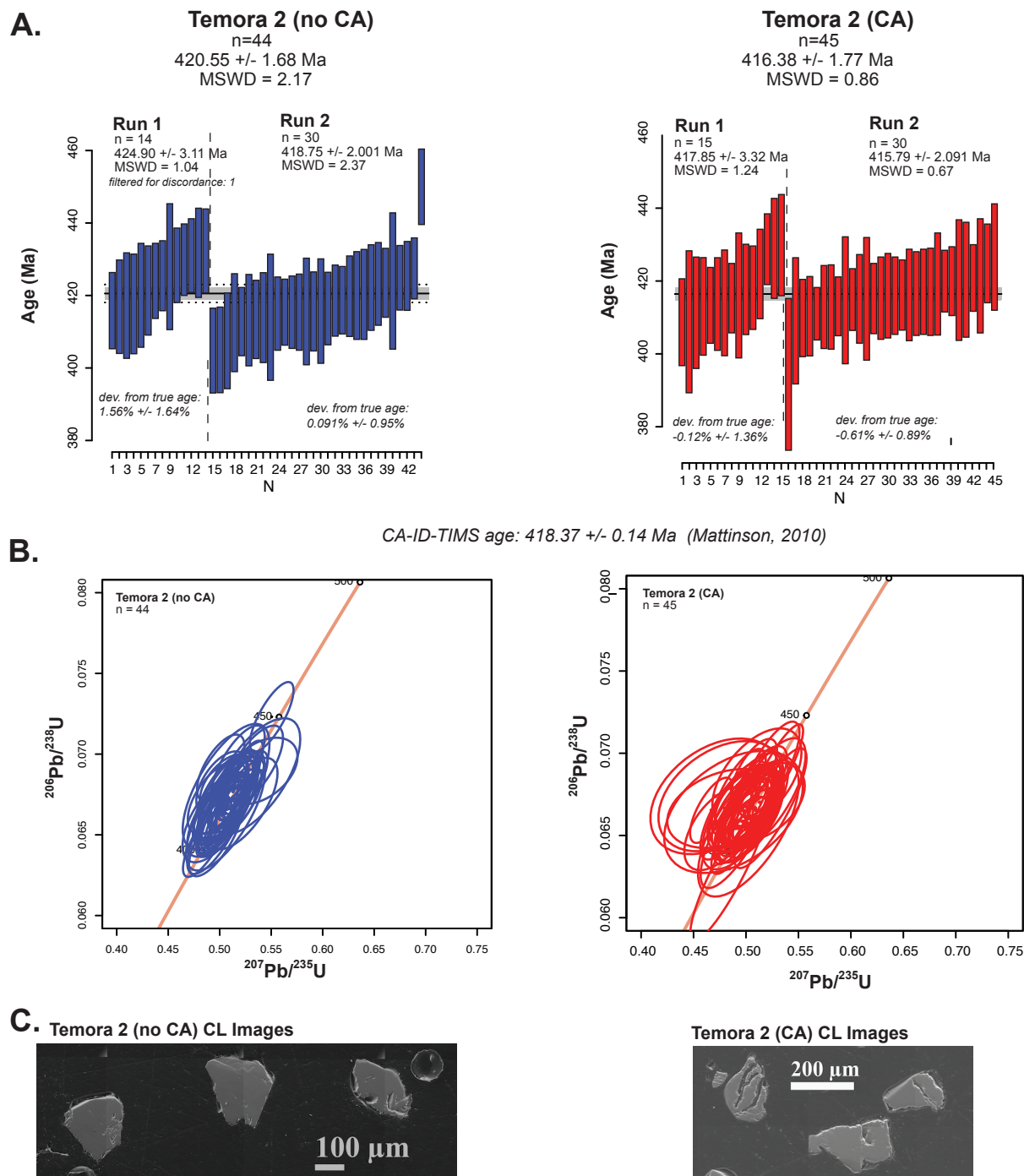


Figure S5. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material Temora 2. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of Temora 2. **C.** Example CL images of treated and untreated aliquots of Temora 2.

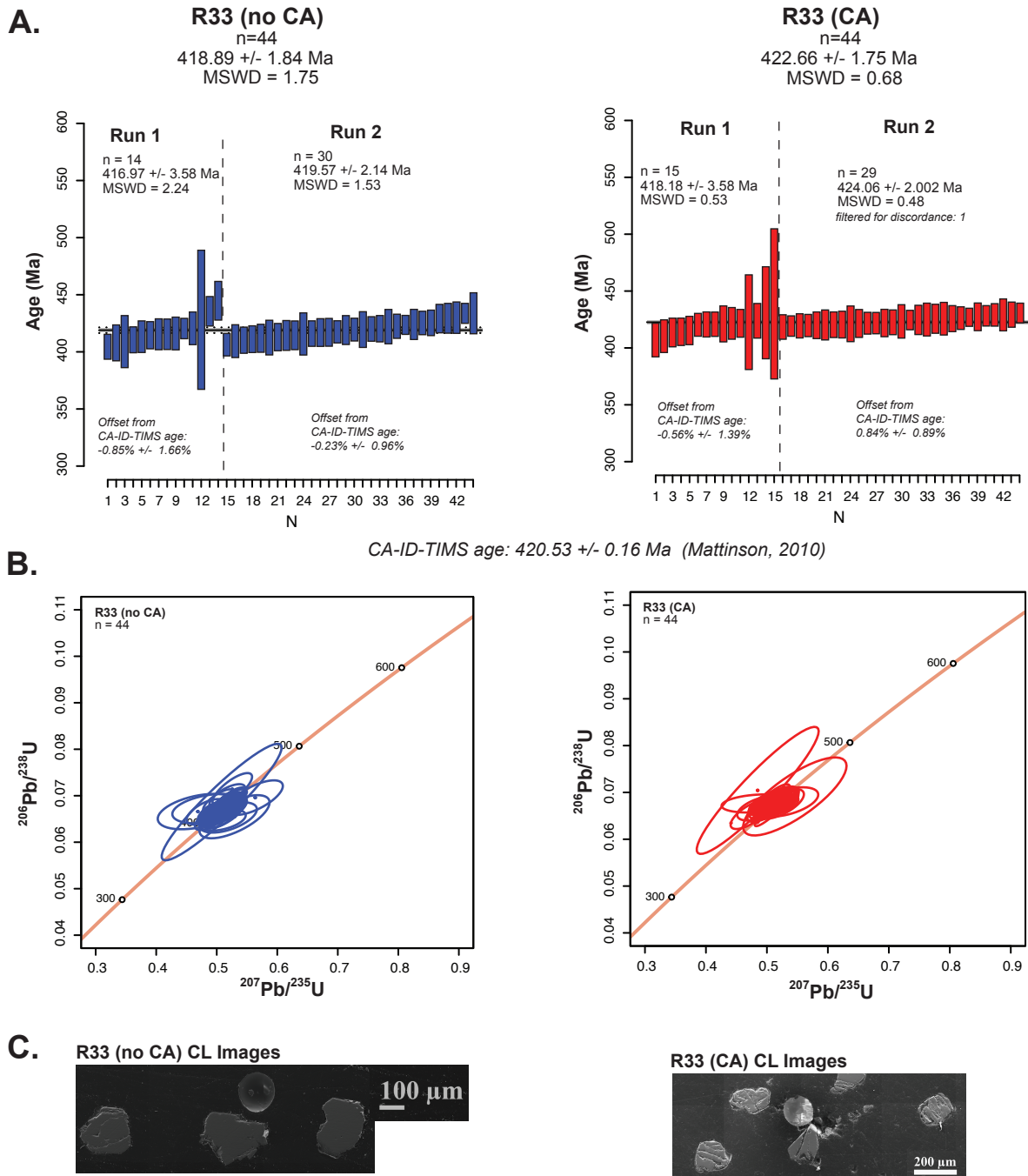
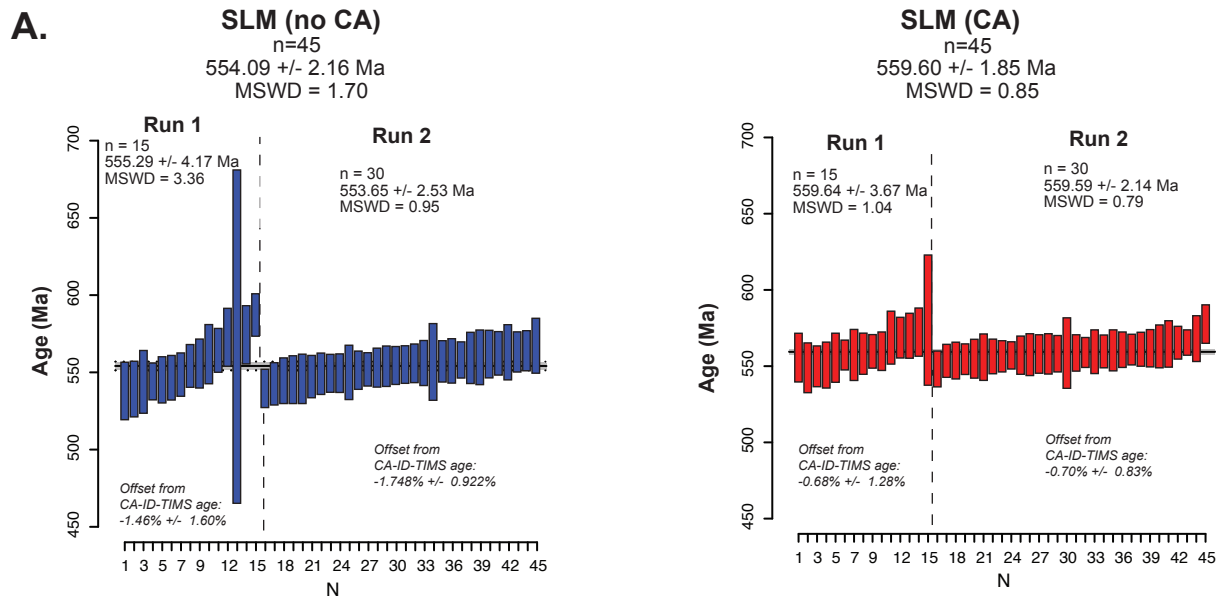


Figure S6. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material R33. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of R33. **C.** Example CL images of treated and untreated aliquots of R33.



CA-ID-TIMS age: 563.5 +/- 3.2 Ma (Gehrels et al., 2008)

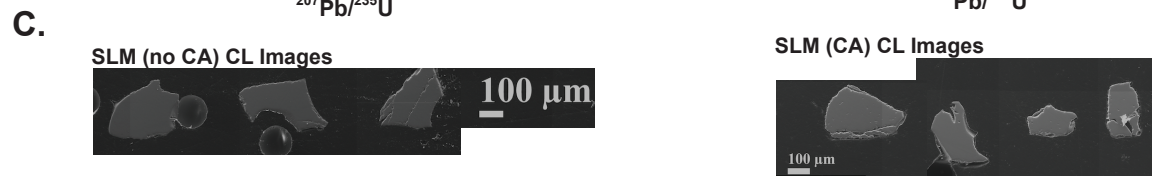
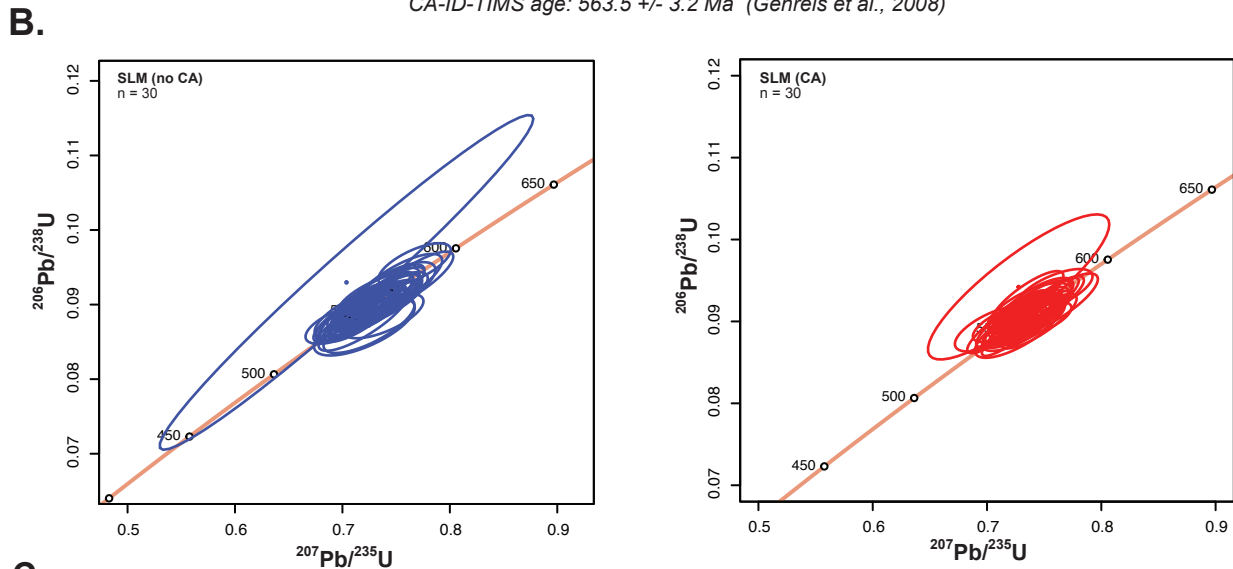


Figure S7. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material SLM. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of SLM. **C.** Example CL images of treated and untreated aliquots of SLM.

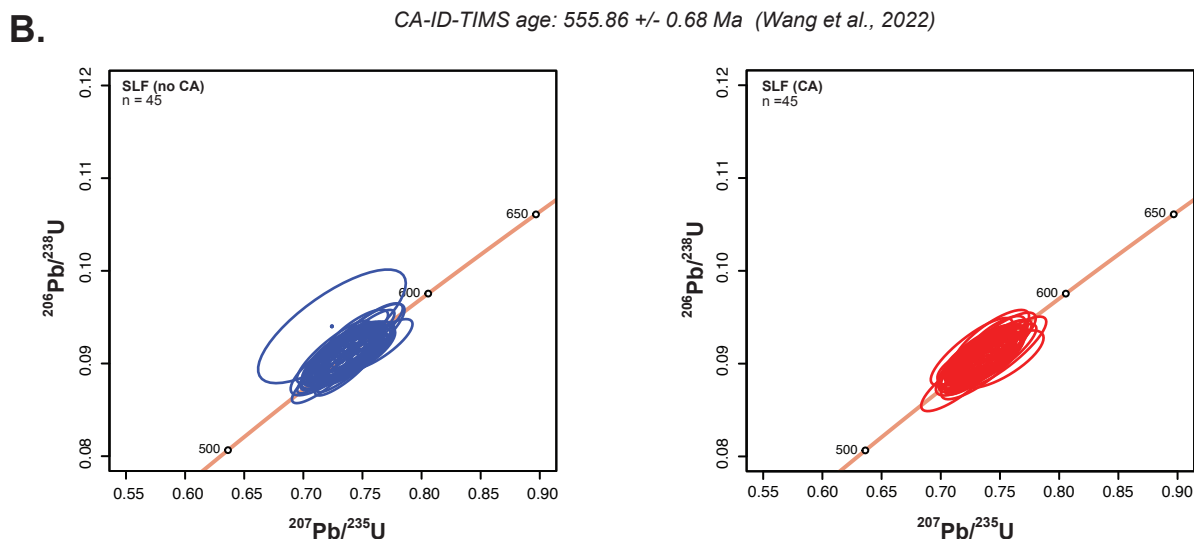
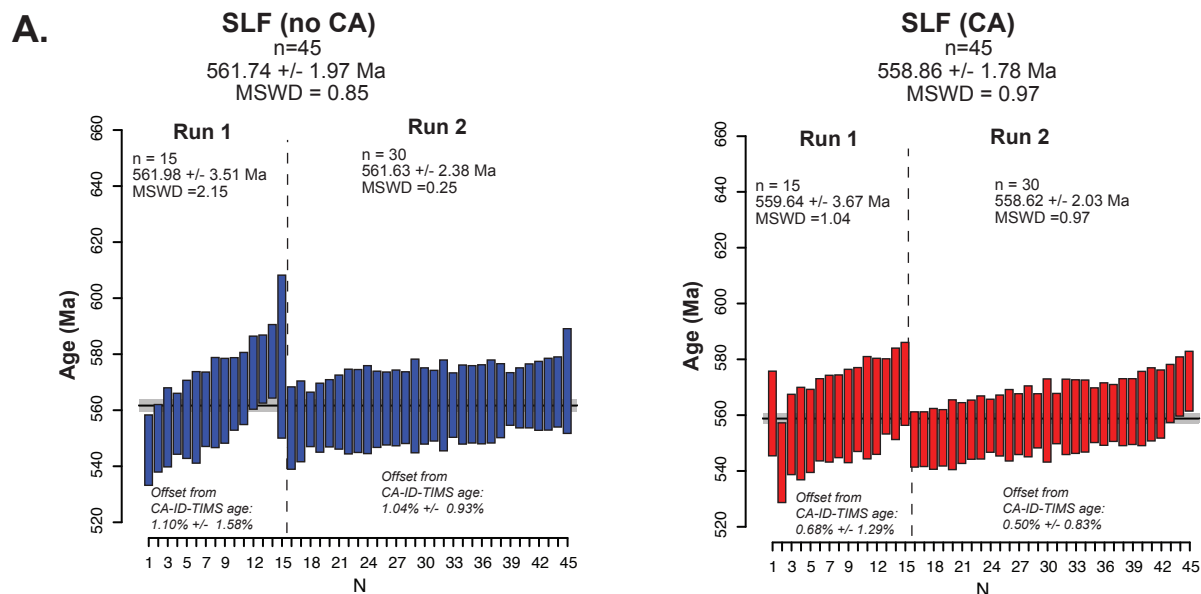
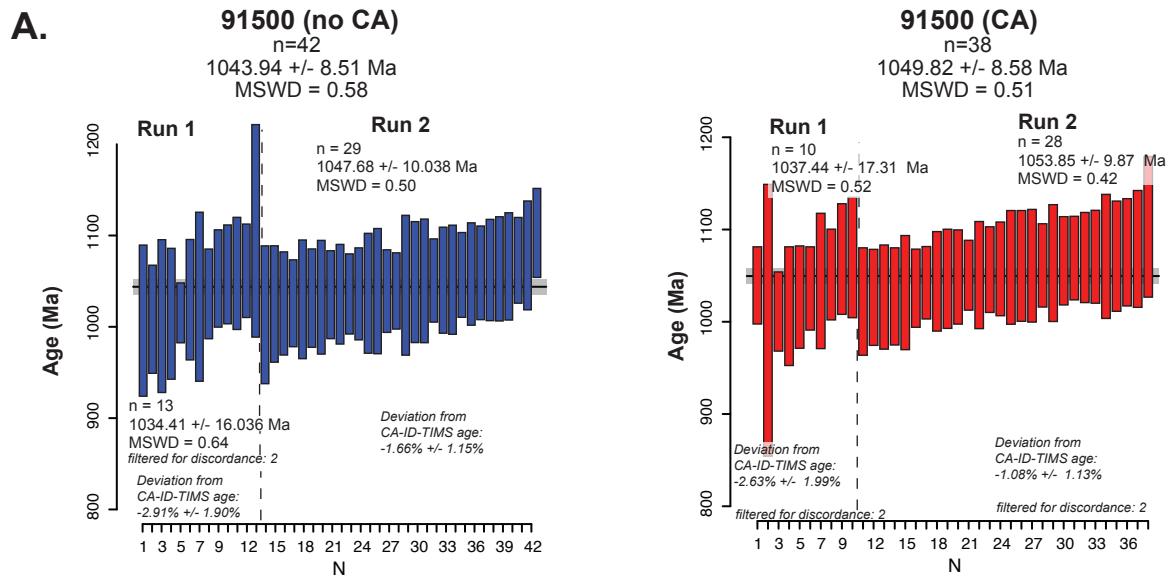


Figure S8. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material SLF. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of SLF. **C.** Example CL images of treated and untreated aliquots of SLF.



CA-ID-TIMS age: 1065.4 +/- 0.3 Ma (Wiedenbeck et al., 1995)

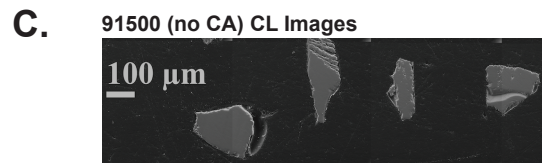
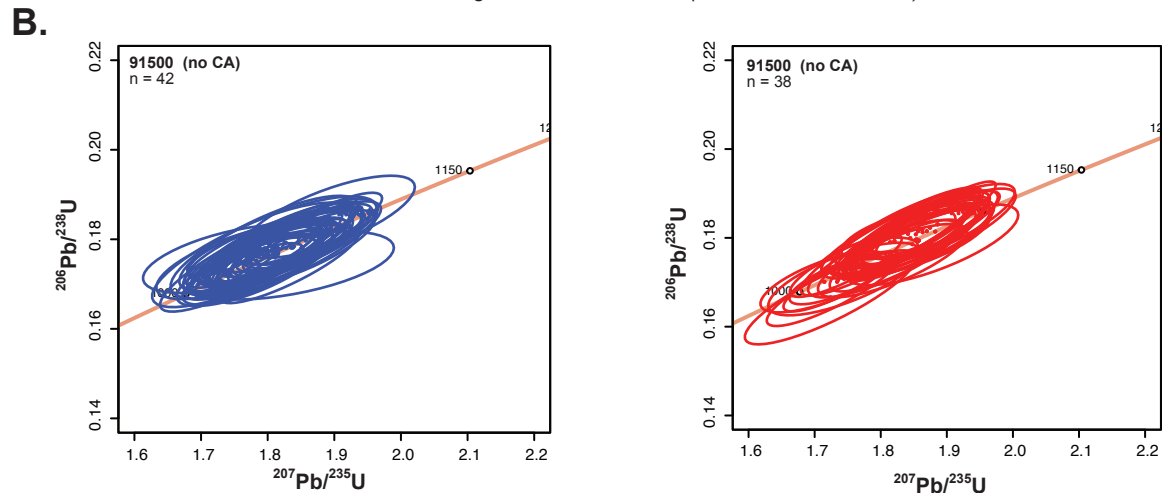
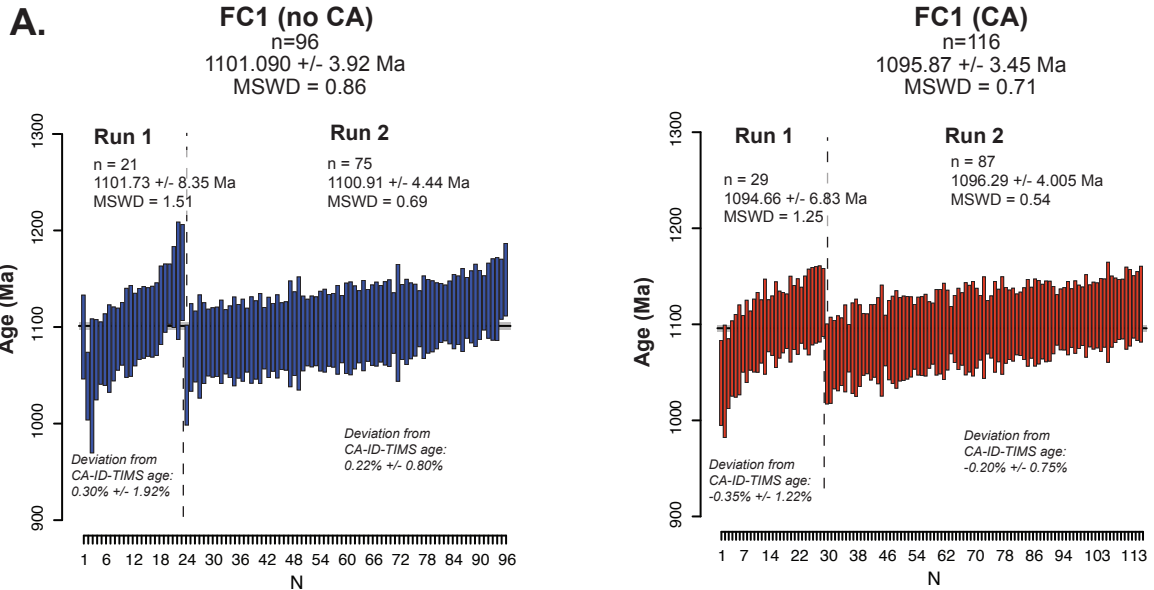


Figure S9. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material 91500. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of 91500. **C.** Example CL images of untreated aliquot of 91500; no available imaging for the treated aliquot of 91500.



CA-ID-TIMS age: 1098.47 +/- 0.16 Ma (Mattinson, 2010)

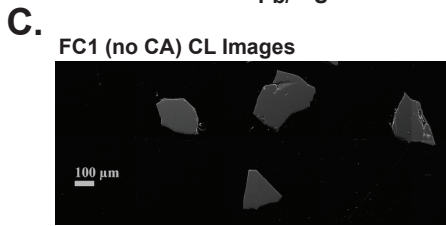
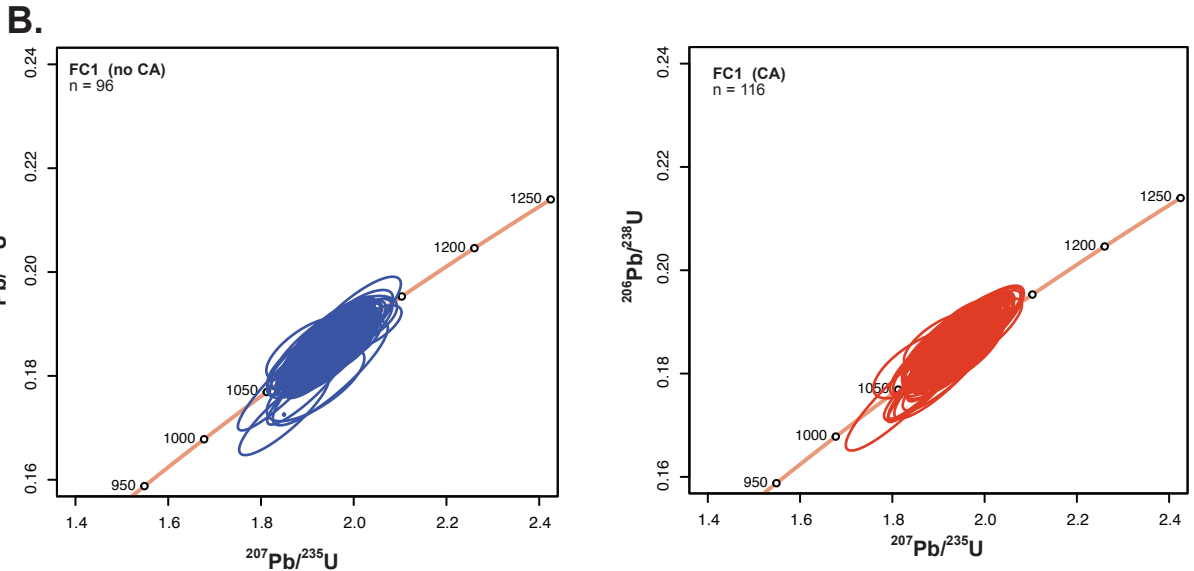


Figure S10. **A.** Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material FC1. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of FC1. **C.** Example CL images of treated and untreated aliquots of FC1.

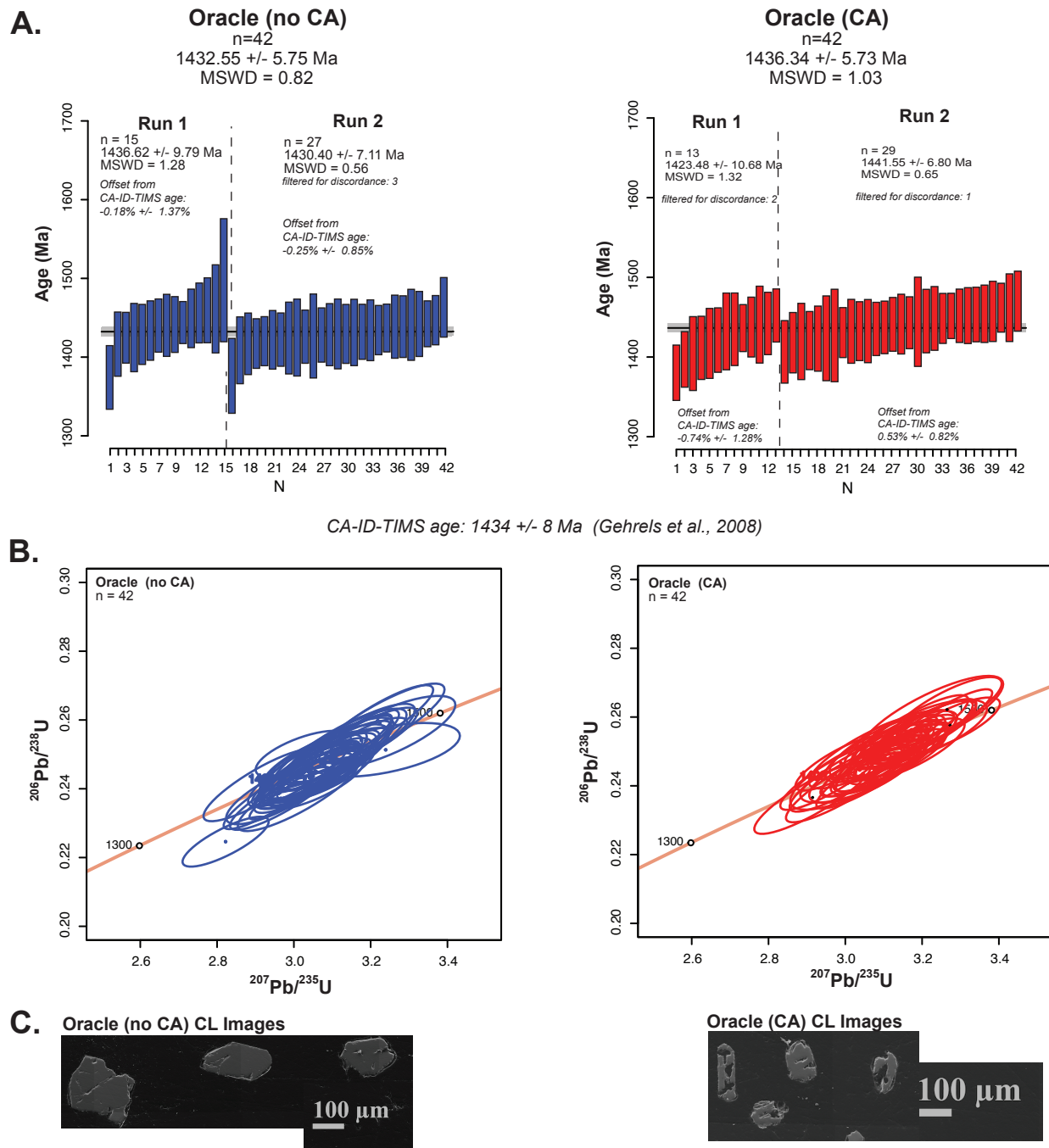
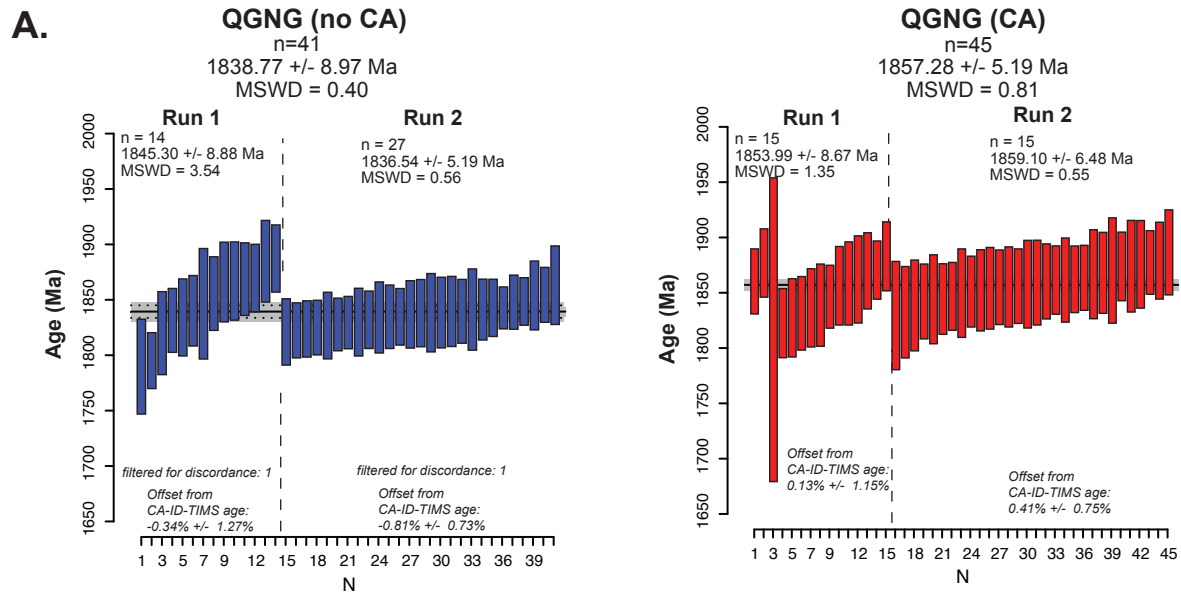
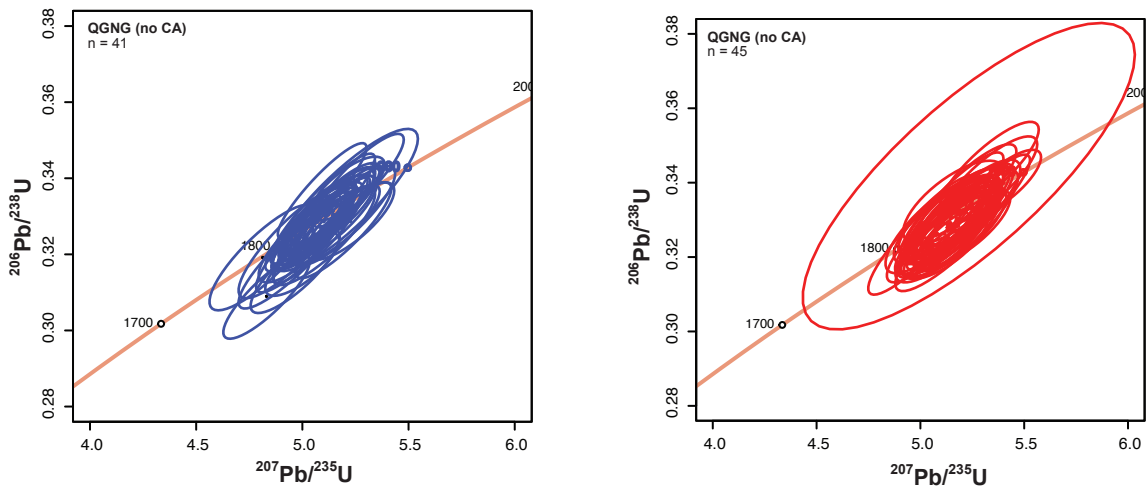


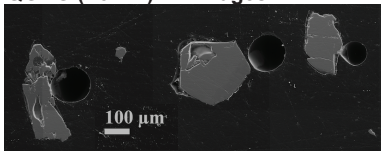
Figure S11. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material Oracle. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of Oracle. **C.** Example CL images of treated and untreated aliquots of Oracle.



B. CA-ID-TIMS age: 1851.6 +/- 0.6 Ma (Black et al., 2004)



C. QNGG (no CA) CL Images



QNGG (CA) CL Images

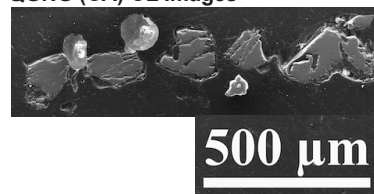


Figure S12. **A.** Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material QNGG. Reported in 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of QNGG. **C.** Example CL images of treated and untreated aliquots of QNGG.

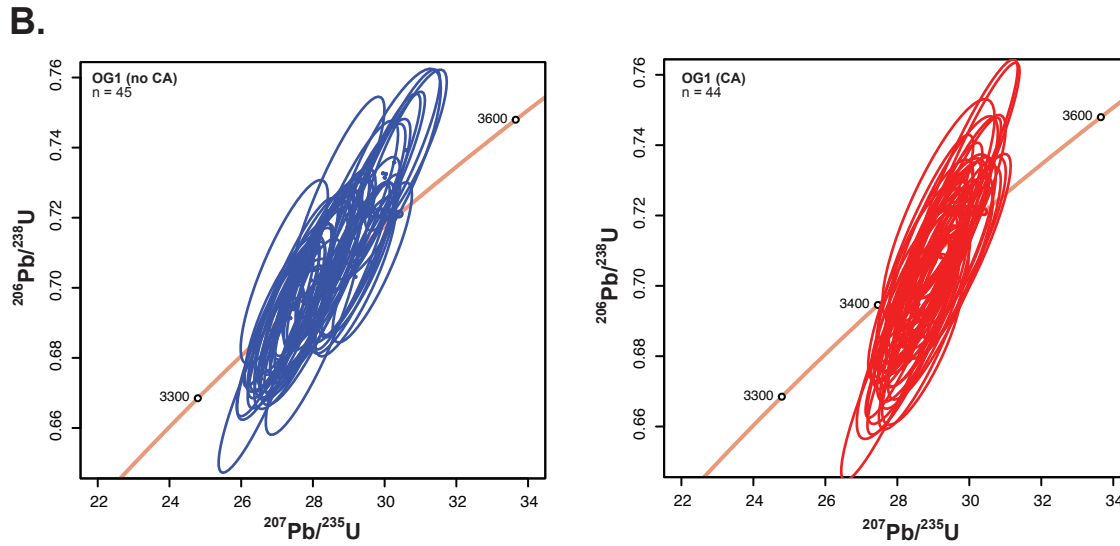
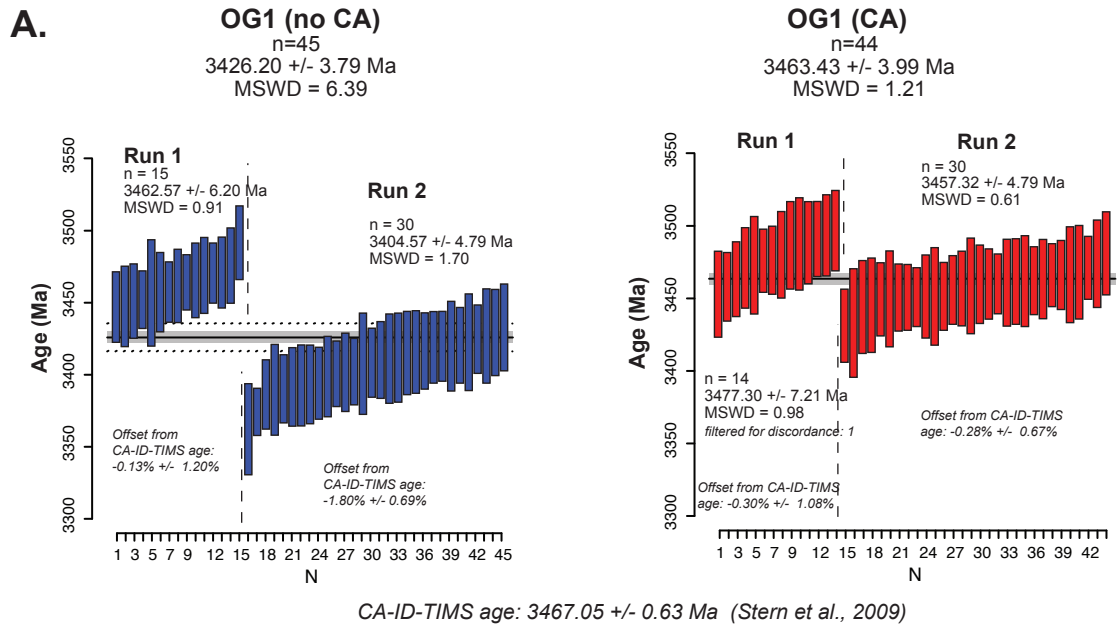


Figure S13. A. Rank order plots show weighted mean calculations and the deviation from the CA-ID-TIMS age of individual runs for treated and untreated aliquots of reference material OG1. Reported as 2-sigma uncertainty. **B.** Concordia diagram of all U-Pb analyses for treated and untreated aliquots of OG1. **C.** Example CL images of treated and untreated aliquots of OG1.

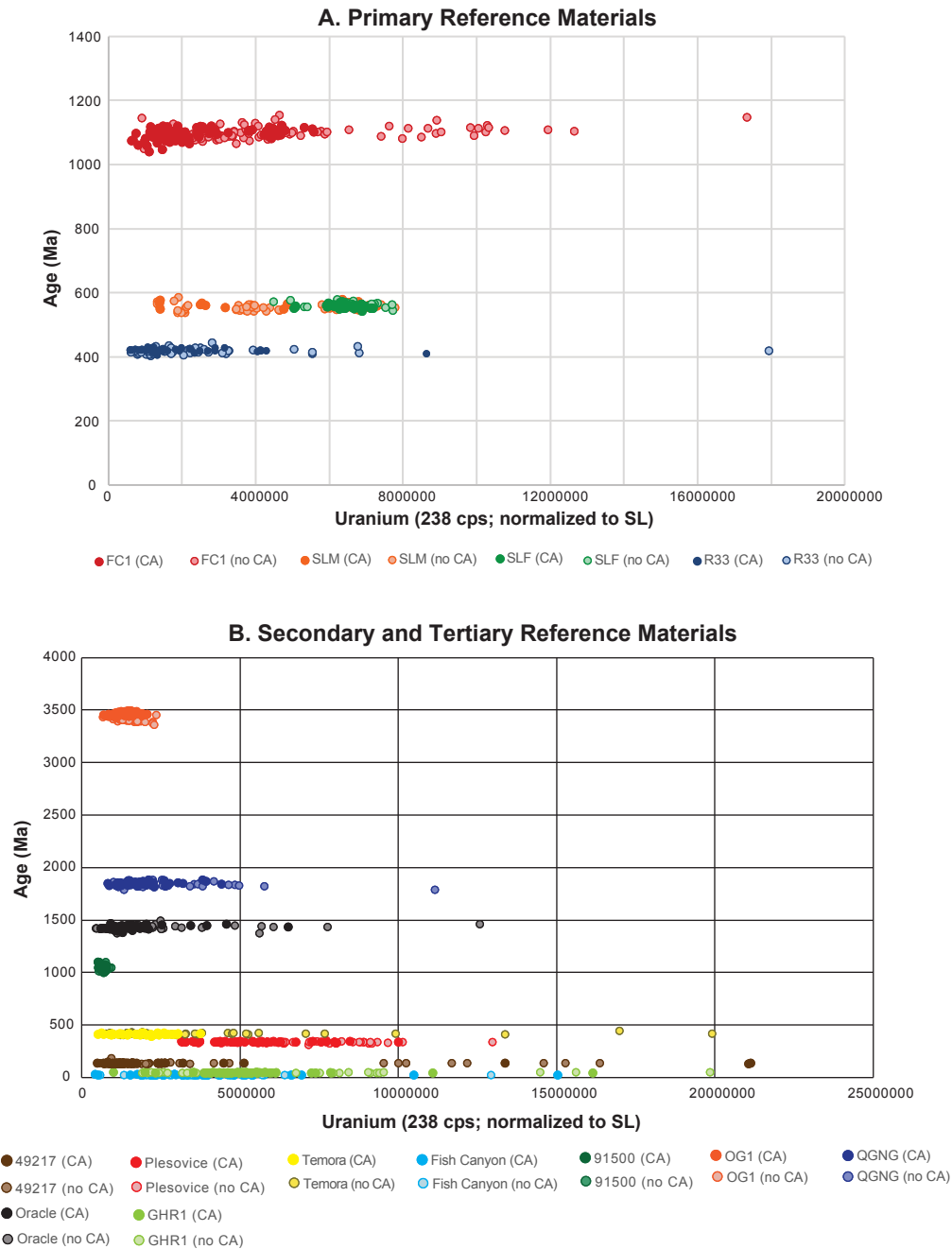


Figure S14. **A.** Scatter plot of uranium (238 cps; normalized to SL) plotted against the age (Ma) for both treated and untreated aliquots of primary reference materials. The age for SLM, SLF, and R33 is the $^{206}\text{Pb}/^{238}\text{U}$ age whereas the best age for FC1 is the $^{207}\text{Pb}/^{206}\text{Pb}$ age. The 238U cps for the treated and untreated aliquots of R33 and FC1 overlap, but there is a clear distinction of treated aliquots having overall lower 238 U cps. However, in both of the treated aliquots of SLM and SLF, ^{238}U cps overlaps and is broadly similar. **B.** Scatter plot of uranium (238 cps; normalized to SL) plotted against the age (Ma) for both treated and untreated aliquots of secondary and tertiary reference materials. Ages are defined as the $^{206}\text{Pb}/^{238}\text{U}$ or $^{207}\text{Pb}/^{206}\text{Pb}$ age in Figure 1. ^{238}U cps for the treated and untreated aliquots of all reference materials overlap and are similar, but there is a clear proportion of treated aliquots that contain less ^{238}U than the untreated aliquot.

TABLE S1: FISH CANYON LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition								Ages									
	U (238 cps)	U (norm) (238 cps)	206Pb/ 204Pb	206Pb/ 207Pb (%)	U/Th	2σ	207Pb/ 235U (%)	206Pb/ 238U (%)	error corr.	206Pb/ 238U (Ma)	207Pb 2σ (Ma)	206Pb/ 207Pb (Ma)	%	Disc.				
Fish Canyon no CA Run 1																		
Fish Canyon-1	5040630	5765998	3013	2.27	19.391	5.8	0.0307	7.6	0.00432	4.9	0.640	27.8	1.3	30.7	2.3	265.4	134.2	89.5
Fish Canyon-2	4112037	4703775	757	2.55	29.950	20.6	0.0212	22.9	0.00461	10.1	0.439	29.7	3.0	21.3	4.8	NA	NA	NA
Fish Canyon-3	3045263	3483489	879	1.18	25.229	29.4	0.0240	30.9	0.00439	9.7	0.313	28.2	2.7	24.1	7.4	NA	NA	NA
Fish Canyon-5	2162837	2474078	1070	2.40	25.905	11.3	0.0253	14.1	0.00476	8.4	0.598	30.6	2.6	25.4	3.5	NA	NA	NA
Fish Canyon-6	2297646	2628287	920	2.28	28.107	15.7	0.0237	18.8	0.00484	10.3	0.551	31.1	3.2	23.8	4.4	NA	NA	NA
Fish Canyon-8	3794239	4340245	1699	2.33	22.244	21.0	0.0307	23.4	0.00495	10.3	0.441	31.8	3.3	30.7	7.1	NA	NA	NA
Fish Canyon no CA Run 1 (discordant)																		
Fish Canyon-4	1178832	1348471	1251	1.16	24.164	14.4	0.0360	44.6	0.00632	42.2	0.947	40.6	17.1	35.9	15.7	NA	NA	NA
Fish Canyon-7	1372434	1569932	5689	2.34	11.017	28.4	0.0678	32.5	0.00542	15.8	0.487	34.8	5.5	66.6	20.9	#####	543.5	97.6
Fish Canyon-9	1708061	1953858	397	1.40	29.335	26.8	0.0237	31.6	0.00505	16.6	0.528	32.5	5.4	23.8	7.4	NA	NA	NA
Fish Canyon-10	3963333	4533673	1134	2.12	23.796	12.0	0.0240	17.3	0.00415	12.5	0.719	26.7	3.3	24.1	4.1	NA	NA	NA
Fish Canyon-11	1387136	1586750	189	2.52	36.304	56.2	0.0185	58.6	0.00488	16.8	0.287	31.4	5.3	18.6	10.8	NA	NA	NA
Fish Canyon-12	2832561	3240178	33433	2.65	19.317	10.5	0.0365	17.0	0.00511	13.4	0.786	32.9	4.4	36.4	6.1	274.2	241.2	88.0
Fish Canyon-13	2671006	3055375	413	1.15	53.117	28.7	0.0127	30.3	0.00489	9.8	0.324	31.5	3.1	12.8	3.9	NA	NA	NA
Fish Canyon-14	2660762	3043657	575	1.53	18.765	42.2	0.0374	43.4	0.00509	10.1	0.233	32.8	3.3	37.3	15.9	340.2	NA	90.4
Fish Canyon-15	1219797	1395330	191	1.22	21.003	42.1	0.0297	44.7	0.00452	15.1	0.338	29.1	4.4	29.7	13.1	79.0	NA	63.2
Fish Canyon no CA Run 2																		
FishC_1	4238744	3987903	26992	1.48	22.042	6.5	0.0273	7.6	0.0044	4	0.519	28.1	1.1	27.4	2.1	36.9	158	23.8
FishC_10	4903328	4613158	29024	2.3	21.458	6.4	0.0276	7.2	0.0043	3.3	0.463	27.7	0.9	27.7	2	27.9	152	0.7
FishC_11	3904869	3673786	5000	2.41	22.175	12.7	0.0269	12.9	0.0043	2.5	0.197	27.9	0.7	27	3.4	51.5	308	45.8
FishC_12	610796	574650	5000	2.43	21.207	17.1	0.03	18.4	0.0046	6.9	0.373	29.7	2	30	5.4	56	408	47.0
FishC_13	3158272	2971372	5000	2.58	22.094	13	0.0278	13.4	0.0045	3.4	0.25	28.7	1	27.8	3.7	42.7	316	32.8
FishC_14	1.4E+07	12922341	24959	0.46	21.088	5.2	0.0301	5.9	0.0046	2.8	0.466	29.6	0.8	30.1	1.8	69.3	125	57.3
FishC_15	4153965	3908141	5000	1.67	23.371	12.1	0.0274	12.4	0.0046	2.8	0.228	29.8	0.8	27.4	3.3	500	1	94.0
FishC_16	3793071	3568604	53203	1.9	21.802	8	0.0278	8.8	0.0044	3.5	0.403	28.3	1	27.9	2.4	10.4	194	-172.1
FishC_17	2701994	2542095	5000	0.94	16.566	19.7	0.0363	19.9	0.0044	2.8	0.141	28.1	0.8	36.2	7.1	615.7	427	95.4
FishC_18	6990256	6576586	5000	0.51	22.699	12	0.0283	12.3	0.0047	2.3	0.187	30	0.7	28.3	3.4	108.8	297	72.4
FishC_19	2940183	2766189	4E+05	1.51	21.113	7.5	0.0283	8.3	0.0043	3.5	0.421	27.9	1	28.3	2.3	66.5	180	58.0
FishC_2	2006183	1887461	5000	2.93	22.027	12	0.028	12.7	0.0045	4	0.318	28.8	1.2	28	3.5	35.2	292	18.2
FishC_20	4974802	4680403	5000	1.67	21.807	11.6	0.0277	12	0.0044	3.3	0.277	28.2	0.9	27.7	3.3	10.9	280	-158.7
FishC_21	2255158	2121702	5000	2.41	22.722	14.9	0.0264	15.2	0.0044	2.9	0.191	28	0.8	26.5	4	111.2	368	74.8
FishC_23	3445056	3241184	5000	2.52	22.19	12.8	0.0275	13.3	0.0044	3.5	0.264	28.5	1	27.6	3.6	53.2	313	46.4
FishC_24	1405972	1322769	47240	1.17	18.989	12.6	0.0318	13.4	0.0044	4.6	0.34	28.2	1.3	31.8	4.2	313.2	288	91.0
FishC_25	3563800	3352901	5000	2.4	22.313	12.9	0.0272	13.5	0.0044	3.7	0.276	28.3	1	27.2	3.6	66.6	316	57.5
FishC_26	2669952	2511949	45799	2.96	21.814	9.6	0.028	10	0.0044	2.8	0.281	28.5	0.8	28.1	2.8	11.8	232	-141.5
FishC_27	4026274	3788007	5000	1.85	23.196	13	0.0263	13.6	0.0044	3.7	0.275	28.5	1.1	26.4	3.5	162.3	325	82.4
FishC_28	6047682	5689792	5000	1.4	22.703	12.2	0.0271	12.5	0.0045	2.9	0.232	28.7	0.8	27.1	3.3	109.2	300	73.7
FishC_29	5707887	5370105	5000	1.46	21.892	11.8	0.0273	12.1	0.0043	2.8	0.227	27.8	0.8	27.3	3.3	20.3	286	-36.9

FishC_3	3015839	2837367	5000	2.46	21.35	13	0.0286	13.2	0.0044	2.6	0.193	28.5	0.7	28.7	3.7	39.9	311	28.6
FishC_30	4638686	4364177	73929	1.64	21.906	6.4	0.0285	7.1	0.0045	2.9	0.412	29.1	0.8	28.5	2	22	156	-32.3
FishC_4	3754909	3532701	5000	2.27	20.639	12.1	0.0289	12.4	0.0043	2.6	0.213	27.8	0.7	28.9	3.5	120.3	285	76.9
FishC_5	2155853	2028274	5000	1.01	21.906	13.6	0.028	14.3	0.0044	4.4	0.31	28.6	1.3	28	3.9	21.9	328	-30.6
FishC_6	6811185	6408112	5000	1.7	22.424	11.6	0.027	12	0.0044	3.1	0.254	28.3	0.9	27.1	3.2	78.8	285	64.1
FishC_8	3734281	3513293	5000	2.32	22.716	12.4	0.0271	13	0.0045	4.1	0.317	28.7	1.2	27.1	3.5	110.6	305	74.1
FishC_9	3617220	3403160	5000	2.45	22.292	11.3	0.0275	11.8	0.0045	3.3	0.276	28.6	0.9	27.5	3.2	64.4	277	55.6

Fish Canyon no CA Run 2 (discordant)

FishC_22	709115	667151	5000	2.98	2.256	8.4	0.5751	9.7	0.0094	5	0.511	60.4	3	461	36	4062	125	98.5
FishC_7	1551183	1459387	5000	2.03	20.618	16.6	0.0289	17.1	0.0043	4.3	0.251	27.8	1.2	28.9	4.9	122.7	392	77.3

Composition

Ages

Zircon	U	U (norm)	206Pb/ U/Th	206Pb/ 2σ	207Pb/ 2σ	206Pb/ 2σ	error	206Pb/ 2σ	207Pb 2σ	206Pb/ 2σ	%
#	(238 cps)	(238 cps)	204Pb	207Pb (%)	235U (%)	238U (%)	corr.	238U (Ma)	235U (Ma)	207Pb (Ma)	Disc.

Fish Canyon CA Run 1

Fish Canyon-2	1318522	1736201	2104	1.27	18.450	12.5	0.0378	17.3	0.00507	12.0	0.690	32.6	3.9	37.7	6.4	378.4	282.4	91.4
Fish Canyon-3	2221601	2925357	10945	1.47	21.471	7.6	0.0309	11.4	0.00481	8.5	0.743	31.0	2.6	30.9	3.5	26.4	NA	-17.1
Fish Canyon-4	5263627	6931033	1171	1.59	23.211	11.8	0.0266	12.4	0.00448	3.9	0.313	28.8	1.1	26.7	3.3	NA	NA	
Fish Canyon-6	1.1E+07	15019407	31562	0.37	19.802	5.5	0.0321	6.1	0.00461	2.6	0.434	29.7	0.8	32.1	1.9	217.1	126.9	86.3
Fish Canyon-7	3651500	4808218	#####	2.41	20.147	8.2	0.0318	10.1	0.00464	5.9	0.585	29.9	1.8	31.7	3.2	176.9	191.4	83.1
Fish Canyon-9	2952057	3887206	2132	2.31	21.754	7.1	0.0280	8.0	0.00442	3.6	0.457	28.4	1.0	28.0	2.2	NA	NA	
Fish Canyon-10	3614518	4759521	5000	0.60	15.501	13.9	0.0438	16.0	0.00492	7.9	0.495	31.7	2.5	43.5	6.8	757.5	294.6	95.8
Fish Canyon-14	2214802	2916404	2607	2.62	22.845	8.2	0.0305	11.8	0.00506	8.5	0.721	32.6	2.8	30.5	3.5	NA	NA	

Fish Canyon CA Run 1 (discordant)

Fish Canyon-1	1315766	1732573	528	1.95	14.864	25.7	0.0431	27.5	0.00465	10.0	0.364	29.9	3.0	42.9	11.6	845.4	535.8	96.5
Fish Canyon-5	690968	909852	335	1.11	160.018	442.8	0.0040	443.1	0.00469	14.3	0.032	30.2	4.3	4.1	18.1	NA	NA	
Fish Canyon-8	2103178	2769421	1896	0.90	27.441	11.1	0.0270	17.7	0.00537	13.7	0.776	34.5	4.7	27.0	4.7	NA	NA	
Fish Canyon-11	1170671	1541514	1069	3.08	16.495	23.0	0.0533	33.1	0.00638	23.8	0.720	41.0	9.7	52.7	17.0	624.9	496.9	93.4
Fish Canyon-12	1514509	1994273	1824	2.71	26.782	8.5	0.0285	33.2	0.00553	32.0	0.966	35.6	11.4	28.5	9.3	NA	NA	
Fish Canyon-13	1185122	1560544	588	2.86	14.860	22.7	0.0427	25.1	0.00461	10.8	0.430	29.6	3.2	42.5	10.4	846.1	472.6	96.5
Fish Canyon-15	1356812	1786621	675	0.57	31.296	26.0	0.0219	35.1	0.00496	23.6	0.672	31.9	7.5	22.0	7.6	NA	NA	

Fish Canyon CA Run 2

FishC 1	2462477	2198080	5000	0.89	22.441	12.7	0.028	13.4	0.0046	4.3	0.318	29.3	1.2	28	3.7	80.7	311	63.7
FishC 10	2459175	2195132	5000	0.94	20.063	14.9	0.0309	15.4	0.0045	4	0.261	28.9	1.2	30.9	4.7	186.6	348	84.5
FishC 11	2529805	2258179	5000	1.86	21.089	14	0.0302	14.6	0.0046	4.5	0.304	29.8	1.3	30.2	4.4	69.3	332	57.0
FishC 12	6064197	5413082	5000	1.52	22.79	12.6	0.0273	13.3	0.0045	4.2	0.314	29	1.2	27.4	3.6	118.6	312	75.5
FishC 13	5669624	5060874	82039	1.51	21.477	6.3	0.029	6.9	0.0045	2.8	0.411	29.1	0.8	29	2	25.7	151	-13.2
FishC 14	7432336	6634323	58895	1.01	21.819	4.3	0.0286	5.5	0.0045	3.3	0.612	29.1	1	28.6	1.5	12.3	105	-136.6
FishC 15	2908721	2596410	5000	0.91	22.245	13.8	0.0277	14.1	0.0045	3.2	0.226	28.8	0.9	27.7	3.9	59.2	336	51.4
FishC 16	3544621	3164034	4E+05	1.33	20.9	7.6	0.0296	8.3	0.0045	3.2	0.386	28.8	0.9	29.6	2.4	90.6	181	68.2
FishC 17	5779467	5158923	24103	1.09	21.234	6.3	0.0288	7.3	0.0044	3.7	0.504	28.5	1	28.8	2.1	52.9	151	46.1
FishC 18	2560899	2285934	5000	1.99	23.725	12.6	0.0269	13.2	0.0046	3.9	0.296	29.8	1.2	27	3.5	500	1	94.0
FishC 19	4877886	4354145	5000	2.03	21.203	12.2	0.0287	13.5	0.0044	5.8	0.43	28.4	1.7	28.7	3.8	56.5	292	49.7
FishC 2	2557588	2282979	5000	0.88	22.414	12.9	0.0272	13.6	0.0044	4.3	0.317	28.5	1.2	27.2	3.7	77.7	316	63.3

FishC 20	2617957	2336866	27374	1.39	20.776	8.1	0.0301	9.1	0.0045	4.1	0.453	29.2	1.2	30.1	2.7	104.8	191	72.1
FishC 21	2885117	2575341	5000	1.06	22.506	13.8	0.0278	14.1	0.0045	3	0.215	29.2	0.9	27.9	3.9	87.7	339	66.7
FishC 22	4409579	3936121	5000	2.28	22.51	12.5	0.0278	12.8	0.0045	2.8	0.219	29.2	0.8	27.8	3.5	88.2	306	66.9
FishC 23	5355821	4780764	5000	2.62	22.474	11.8	0.0276	12.1	0.0045	2.7	0.222	29	0.8	27.6	3.3	84.3	290	65.6
FishC 24	478002	426679	5000	1.08	21.224	19.8	0.0304	21.1	0.0047	7.4	0.351	30.1	2.2	30.4	6.3	54	473	44.3
FishC 25	3561798	3179366	21677	2.28	20.848	6.1	0.0291	7.4	0.0044	4.2	0.566	28.4	1.2	29.2	2.1	96.5	144	70.6
FishC 26	4050808	3615871	5000	2.02	23.454	12.2	0.0267	12.7	0.0045	3.3	0.26	29.2	1	26.7	3.3	500	1	94.2
FishC 27	4449541	3971792	39128	1.51	21.121	7.5	0.0291	8.4	0.0045	3.6	0.436	28.7	1	29.1	2.4	65.7	179	56.3
FishC 28	4847478	4327002	6E+05	2.54	20.418	6.5	0.0298	7.1	0.0044	3	0.418	28.4	0.8	29.8	2.1	145.7	152	80.5
FishC 29	4388413	3917227	5000	1.38	22.342	11.9	0.0274	12.2	0.0045	2.8	0.227	28.6	0.8	27.5	3.3	69.8	290	59.0
FishC 3	2092448	1867781	5000	1.26	21.384	13.4	0.0286	14.4	0.0044	5.2	0.359	28.6	1.5	28.7	4.1	36.1	322	20.8
FishC 30	4283534	3823609	5000	1.99	22.358	12	0.0273	12.5	0.0044	3.2	0.257	28.5	0.9	27.4	3.4	71.6	295	60.2
FishC 4	557486	497628	5000	1.57	18.202	21.1	0.033	22.6	0.0044	8	0.353	28	2.2	33	7.3	408.7	474	93.1
FishC 5	2158412	1926662	5000	1.44	21.913	12.9	0.0279	13.4	0.0044	3.5	0.263	28.6	1	28	3.7	22.7	312	-26.0
FishC 6	3711668	3313145	5000	0.87	21.807	13.2	0.0284	13.5	0.0045	2.8	0.206	29	0.8	28.5	3.8	11	319	-163.6
FishC 7	1715051	1530905	5000	1.79	22.322	13.6	0.0282	14.2	0.0046	3.9	0.278	29.4	1.2	28.2	3.9	67.6	332	56.5
FishC 8	1.2E+07	10478143	1E+05	1.05	20.708	5.4	0.0299	6.2	0.0045	3	0.483	28.9	0.9	29.9	1.8	112.4	128	74.3
FishC 9	6015641	5369739	5000	1.86	19.356	13.8	0.0317	14.4	0.0045	4.3	0.296	28.6	1.2	31.7	4.5	269.5	316	89.4

TABLE S2: GHR1 LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition							Ages							% Disc.			
	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U (%)	2σ	206Pb/238U (%)	2σ	error corr.	206Pb/238U (Ma)	2σ	207Pb/235U (Ma)		2σ	206Pb/238U (Ma)	2σ
GHR1 no CA Run 1																		
GHR1-1	7107558	8130364	2601	2.53	19.193	8.3	0.0547	8.9	0.00762	3.2	0.354	48.9	1.5	54.1	4.7	288.9	190.2	83.1
GHR1-2	5356443	6127257	154552	2.82	18.515	7.5	0.0592	8.2	0.00795	3.2	0.386	51.0	1.6	58.4	4.6	370.5	169.5	86.2
GHR1-3	4778897	5466600	2172	2.52	24.084	8.3	0.0452	9.4	0.00790	4.4	0.469	50.7	2.2	44.9	4.1	NA	NA	NA
GHR1-4	5242910	5997385	2838	2.88	21.982	9.3	0.0470	10.9	0.00749	5.5	0.511	48.1	2.7	46.6	4.9	NA	NA	NA
GHR1-6	8126342	9295756	4515	2.47	20.423	9.8	0.0474	10.1	0.00703	2.5	0.244	45.2	1.1	47.1	4.6	145.1	230.0	68.9
GHR1-7	4903672	5609331	31877	2.84	16.347	8.5	0.0659	9.3	0.00782	3.8	0.409	50.2	1.9	64.8	5.9	644.4	183.4	92.2
GHR1-8	3793425	4339314	2256	3.16	17.840	14.4	0.0612	15.3	0.00792	5.4	0.353	50.8	2.7	60.3	9.0	453.5	319.0	88.8
GHR1-9	4030670	4610699	25984	2.78	20.051	7.8	0.0543	9.7	0.00790	5.7	0.587	50.7	2.9	53.7	5.1	188.1	182.6	73.0
GHR1-10	8209960	9391407	9604	2.21	20.134	4.9	0.0487	5.6	0.00711	2.8	0.495	45.7	1.3	48.3	2.6	178.4	113.9	74.4
GHR1-11	7952967	9097431	7573	1.78	21.798	5.2	0.0485	6.4	0.00768	3.6	0.564	49.3	1.8	48.1	3.0	NA	NA	NA
GHR1-13	4988081	5705886	6404	2.67	21.794	6.2	0.0482	7.2	0.00763	3.7	0.515	49.0	1.8	47.8	3.4	NA	NA	NA
GHR1-14	4460239	5102085	3155	2.45	24.171	7.0	0.0437	11.2	0.00767	8.7	0.783	49.3	4.3	43.5	4.8	NA	NA	NA
GHR1-15	2241234	2563756	10569	2.22	14.121	16.2	0.0798	17.5	0.00818	6.7	0.384	52.5	3.5	78.0	13.1	951.2	331.1	94.5
GHR1 no CA Run 1 (discordant)																		
GHR1-5	3181823	3639700	471	3.14	9.387	29.2	0.1201	30.0	0.00818	3.4	0.226	52.5	3.6	115.2	32.7	1740.1	538.8	97.0
GHR1-12	4120579	4713547	3975	3.31	25.522	5.6	0.0495	55.6	0.00917	27.7	0.995	58.8	32.4	49.1	26.6	NA	NA	NA
GHR1 no CA Run 2																		
GHR1 1	15377905	14467870	174251	1.71	21.055	2.5	0.0519	3.2	0.0079	2	0.61	50.9	1	51.4	1.6	73.1	60.5	30.4
GHR1 10	5016871	4719982	5000	3.54	23.07	11	0.0464	11	0.0078	2.1	0.18	49.8	1	46	5.1	500	1	90.0
GHR1 11	8432095	7933100	5000	2.17	22.739	5	0.0461	5.5	0.0076	2.4	0.43	48.8	1.2	45.7	2.5	500	1	90.2
GHR1 12	3372773	3173179	25194	2.94	14.014	20.1	0.0765	20	0.0078	3.6	0.18	50	1.8	74.9	14.7	966.8	411	94.8
GHR1 13	8939725	8410689	49893	2.94	21.036	3.8	0.0513	4.9	0.0078	3.1	0.64	50.3	1.6	50.8	2.4	75.2	89.4	33.1
GHR1 14	4862702	4574937	31514	3.29	20.768	5.4	0.0492	5.8	0.0074	1.9	0.33	47.6	0.9	48.8	2.7	105.6	128	54.9
GHR1 15	6168054	5803040	1E+06	2.99	20.648	6.6	0.0507	7.3	0.0076	3.1	0.43	48.7	1.5	50.2	3.6	119.3	156	59.2
GHR1 16	7176882	6752168	37708	2.63	20.556	3.6	0.0505	4.7	0.0075	3	0.64	48.4	1.4	50	2.3	129.8	84.9	62.7
GHR1 17	3658961	3442431	23025	3.41	21.116	7.6	0.0494	8.2	0.0076	3.1	0.38	48.6	1.5	48.9	3.9	66.3	180	26.7
GHR1 18	2206877	2076278	58098	4.85	21.432	9.9	0.0486	11	0.0076	4.1	0.39	48.5	2	48.1	5	30.8	236	-57.5
GHR1 19	8340424	7846854	25986	2.21	21.417	6.2	0.0503	7.9	0.0078	5	0.63	50.2	2.5	49.8	3.9	32.5	148	-54.5
GHR1 2	4628957	4355024	73238	3.64	21.251	6.4	0.0481	7.5	0.0074	4	0.53	47.7	1.9	47.7	3.5	51	152	6.5
GHR1 20	5017652	4720717	219893	3.4	21.29	5.5	0.0481	6.1	0.0074	2.7	0.44	47.8	1.3	47.7	2.9	46.6	131	-2.6
GHR1 21	2023330	1903593	5000	6.78	22.379	13	0.0464	13	0.0075	3.3	0.24	48.4	1.6	46	6	73.9	319	34.5
GHR1 22	2879617	2709207	5000	3.01	21.936	12.3	0.0463	13	0.0074	3.7	0.29	47.3	1.7	45.9	5.8	25.2	297	-87.7
GHR1 23	2322411	2184975	5000	3.66	23.543	13.2	0.0461	14	0.0079	3.2	0.24	50.5	1.6	45.7	6.1	500	1	89.9
GHR1 24	10133150	9533490	24084	2.01	21.183	4.2	0.0536	5.1	0.0082	2.9	0.57	52.9	1.5	53	2.6	58.7	99.7	9.9
GHR1 25	3715686	3495799	5000	3.45	22.459	11.3	0.0468	12	0.0076	2.8	0.24	48.9	1.4	46.4	5.3	82.6	277	40.8
GHR1 26	16579331	15598198	5000	1.95	11.486	8	0.1009	8.5	0.0084	2.8	0.34	54	1.5	97.6	7.9	1361	154	96.0
GHR1 27	3534593	3325423	31821	3.2	20.593	5.7	0.0509	6.6	0.0076	3.2	0.49	48.9	1.6	50.4	3.2	125.6	134	61.1
GHR1 28	5886671	5538309	5000	2.64	22.533	11.1	0.0477	11	0.0078	2.7	0.24	50.1	1.4	47.3	5.3	90.7	271	44.8

GHR1 29	21087095	19839201	75664	0.91	21.243	3.2	0.0542	4.1	0.0084	2.5	0.62	53.6	1.3	53.6	2.1	52	76.1	-3.1
GHR1 3	7975424	7503454	97174	1.88	20.843	3.6	0.0513	3.8	0.0078	1.4	0.37	49.9	0.7	50.8	1.9	97	84.3	48.6
GHR1 30	3835378	3608408	84945	3.45	17.456	6.3	0.0603	7	0.0076	3	0.43	49	1.5	59.4	4	501.6	139	90.2
GHR1 4	4167938	3921287	5000	2.18	11.876	21.2	0.0886	21	0.0076	2.8	0.13	49	1.4	86.2	17.7	1296	414	96.2
GHR1 5	9609677	9040995	5000	3.4	22.774	10.7	0.0474	11	0.0078	2.8	0.25	50.3	1.4	47	5.1	116.8	264	56.9
GHR1 6	5159540	4854208	5000	2.54	21.912	11.3	0.0472	12	0.0075	2.7	0.24	48.2	1.3	46.8	5.3	22.5	274	-114.2
GHR1 7	6506930	6121862	31439	2.73	17.767	7	0.0559	7.7	0.0072	3.3	0.43	46.3	1.5	55.2	4.1	462.6	155	90.0
GHR1 8	6375965	5998648	46147	3.08	21.433	5.4	0.0485	6.5	0.0075	3.6	0.55	48.4	1.7	48	3.1	30.6	130	-58.2
GHR1 9	2587160	2434057	21737	3.07	20.198	8	0.0509	8.6	0.0075	3.3	0.38	47.9	1.6	50.4	4.2	171	186	72.0

Composition

Ages

Zircon #	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U (%)	2σ	206Pb/238U (%)	2σ	error	206Pb/2σ	207Pb/2σ	206Pb/2σ	2σ	%	Disc.	
GHR1 CA Run 1																		
GHR1-1	2952057	3887206	4834	2.82	22.737	4.2	0.0464	5.9	0.00766	4.2	0.709	49.2	2.0	46.1	2.7	NA	NA	NA
GHR1-2	3480850	4583509	4591	4.32	21.476	5.6	0.0474	7.1	0.00739	4.3	0.606	47.4	2.0	47.0	3.3	25.9	NA	-83.2
GHR1-3	3934300	5180603	55149	2.63	20.730	5.2	0.0546	7.3	0.00822	5.1	0.703	52.8	2.7	54.0	3.8	110.0	122.2	52.0
GHR1-4	3091576	4070922	2104	2.78	23.893	5.9	0.0442	7.2	0.00766	4.2	0.576	49.2	2.0	43.9	3.1	NA	NA	NA
GHR1-5	4070890	5360462	2492	2.54	22.116	6.8	0.0463	8.5	0.00743	5.1	0.602	47.7	2.4	46.0	3.8	NA	NA	NA
GHR1-6	3144248	4140279	1763	2.70	21.889	13.4	0.0493	14.2	0.00782	4.7	0.331	50.2	2.3	48.8	6.8	NA	NA	NA
GHR1-7	5505455	7249467	98121	2.41	20.191	3.4	0.0520	5.3	0.00762	4.1	0.776	48.9	2.0	51.5	2.7	171.9	78.5	71.5
GHR1-8	4069170	5358197	2204	2.44	22.926	12.2	0.0430	12.6	0.00715	3.3	0.261	45.9	1.5	42.7	5.3	NA	NA	NA
GHR1-9	3769800	4963993	1581	3.28	23.145	5.6	0.0445	6.3	0.00747	3.1	0.484	48.0	1.5	44.2	2.7	NA	NA	NA
GHR1-10	3843329	5060815	4855	2.65	16.112	8.1	0.0671	8.6	0.00784	2.9	0.338	50.4	1.5	65.9	5.5	675.5	174.0	92.5
GHR1-11	1757714	2314521	1346	1.65	26.966	31.1	0.0396	31.5	0.00776	5.4	0.170	49.8	2.7	39.5	12.2	NA	NA	NA
GHR1-12	4397016	5789897	3212	3.21	20.659	7.6	0.0528	8.2	0.00791	2.9	0.360	50.8	1.5	52.2	4.2	118.1	179.6	57.0
GHR1-13	3733043	4915593	3833	2.32	18.402	10.1	0.0598	11.8	0.00798	6.1	0.517	51.2	3.1	58.9	6.8	384.3	227.7	86.7
GHR1-14	2676128	3523869	17286	2.61	19.472	9.1	0.0555	11.1	0.00784	6.3	0.567	50.3	3.1	54.8	5.9	255.8	209.4	80.3
GHR1-15	3306750	4354259	2696	2.33	21.033	9.4	0.0500	9.9	0.00763	3.2	0.320	49.0	1.6	49.5	4.8	75.6	NA	35.2
GHR1 CA Run 2																		
GHR1 1	4382655	3912088	5000	2.46	22.668	11.8	0.0454	12	0.0075	2.9	0.24	48	1.4	45.1	5.3	105.3	290	54.4
GHR1 10	5185941	4629124	5000	3.17	22.575	11.2	0.046	12	0.0075	3.5	0.29	48.3	1.7	45.6	5.2	95.2	276	49.3
GHR1 11	4565560	4075354	5000	2.73	22.931	11.7	0.0459	12	0.0076	2.2	0.18	49	1.1	45.6	5.3	133.8	289	63.4
GHR1 12	4500834	4017578	523758	3.16	20.991	4.6	0.0508	5.2	0.0077	2.4	0.47	49.7	1.2	50.3	2.6	80.4	110	38.2
GHR1 13	5817738	5193085	38932	2.15	21.39	4.6	0.0492	5.1	0.0076	2.3	0.45	49	1.1	48.7	2.4	35.5	110	-38.0
GHR1 14	4985752	4450430	27089	2.95	20.863	4.8	0.0509	5.6	0.0077	2.8	0.51	49.5	1.4	50.4	2.7	94.8	114	47.8
GHR1 15	6850286	6114768	80460	2.65	20.963	5.5	0.0504	5.8	0.0077	1.9	0.32	49.2	0.9	49.9	2.8	83.5	130	41.1
GHR1 16	5718989	5104939	20875	2.82	21.45	6.7	0.0487	7.1	0.0076	2.3	0.33	48.7	1.1	48.3	3.3	28.7	160	-69.7
GHR1 17	18069712	16129560	274997	1.61	21.284	2.8	0.0502	3.3	0.0078	1.8	0.54	49.8	0.9	49.7	1.6	47.4	67.1	-5.1
GHR1 18	6640764	5927742	260441	3.14	21.177	4.2	0.0499	4.8	0.0077	2.3	0.48	49.3	1.1	49.5	2.3	59.3	101	16.9
GHR1 19	5977412	5335615	40850	2.45	20.997	3.8	0.0504	4.9	0.0077	3.2	0.65	49.3	1.6	49.9	2.4	79.6	89.4	38.1
GHR1 2	6232278	5563116	32160	2.34	21.595	4.4	0.0483	5.1	0.0076	2.7	0.52	48.6	1.3	47.9	2.4	12.6	106	-285.7
GHR1 20	8275400	7386867	5000	2.18	23.019	10.7	0.0451	11	0.0075	2.9	0.26	48.3	1.4	44.8	4.8	500	1	90.3
GHR1 21	5823807	5198502	5000	2.86	22.223	11.5	0.0461	12	0.0074	2.1	0.18	47.7	1	45.8	5.2	56.8	280	16.0

GHR1 22	8806835	7861241	5000	2.31	21.884	10.9	0.0472	11	0.0075	2.9	0.26	48.1	1.4	46.8	5.2	19.5	265	-146.7
GHR1 23	11111557	992209	5000	2.12	19.428	14.5	0.0554	15	0.0078	4.4	0.29	50.1	2.2	54.7	8	261	332	80.8
GHR1 24	12415455	11082402	29517	2.13	21.086	3.5	0.0483	4.4	0.0074	2.7	0.61	47.5	1.3	47.9	2	69.5	82.6	31.7
GHR1 25	5312278	4741897	40469	2.34	20.627	5.9	0.0501	6.5	0.0075	2.7	0.42	48.1	1.3	49.6	3.2	121.7	140	60.5
GHR1 26	4318930	3855205	327566	2.88	21.51	5.2	0.0492	6	0.0077	3.1	0.51	49.3	1.5	48.8	2.9	22	125	-124.1
GHR1 27	5261336	4696424	5000	2.76	23.126	11.1	0.0454	11	0.0076	2.5	0.22	49	1.2	45.1	5	500	1	90.2
GHR1 28	2225556	1986597	5000	1.72	19.92	13.9	0.0551	15	0.008	4.6	0.32	51.2	2.4	54.5	7.8	203.2	322	74.8
GHR1 29	4772625	4260186	404631	2.39	20.1	7.1	0.0529	7.5	0.0077	2.4	0.33	49.5	1.2	52.3	3.8	182.3	165	72.8
GHR1 3	5547523	4951883	5000	2.55	22.146	10.8	0.0469	11	0.0075	2.8	0.26	48.4	1.4	46.5	5.1	48.4	263	0.0
GHR1 30	5044687	4503037	23517	2.29	21.379	4.9	0.0488	5.8	0.0076	3.2	0.55	48.7	1.6	48.4	2.8	36.7	117	-32.7
GHR1 4	6185802	5521630	53220	1.75	21.223	5.6	0.052	6.5	0.008	3.2	0.5	51.4	1.6	51.5	3.2	54.2	134	5.2
GHR1 5	5116838	4567441	67196	2.51	21.311	5.1	0.0482	5.5	0.0075	2.1	0.38	47.8	1	47.8	2.6	44.3	122	-7.9
GHR1 6	6182763	5518917	5000	2.52	22.269	10.8	0.0473	11	0.0076	2.8	0.25	49.1	1.3	46.9	5.1	61.8	264	20.6
GHR1 7	5928535	5291986	34448	2.66	21.465	4.6	0.0486	5.3	0.0076	2.6	0.49	48.6	1.3	48.2	2.5	27	111	-80.0
GHR1 8	5579401	4980338	35238	2.56	20.624	4.1	0.0512	5.8	0.0077	4.1	0.71	49.2	2	50.7	2.9	122.1	97.2	59.7
GHR1 9	5761414	5142809	190837	2.81	21.797	4.5	0.0485	5.2	0.0077	2.5	0.48	49.2	1.2	48	2.4	9.9	110	-397.0

TABLE S3: 49127 LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY RESULTS

Zircon #	Composition										Ages							% Disc.
	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb	2σ (%)	207Pb/235U	2σ (%)	206Pb/238U	2σ (%)	Error Corr.	206Pb/238U (Ma)	2σ (Ma)	207Pb/235U (Ma)	2σ (Ma)	206Pb/207Pb (Ma)	2σ (Ma)	
49127 no CA Run 1																		
49127-1	3644095	4168495	10652	1.76	20.241	3.5	0.1476	4.8	0.02168	3.3	0.683	138.3	4.5	139.8	6.3	166.1	82.1	16.8
49127-2	1114200	1274538	1229	1.15	20.503	11.0	0.1435	13.2	0.02135	7.4	0.558	136.2	10.0	136.2	16.9	135.9	258.4	-0.2
49127-3	805140.4	921003	11375	1.88	25.496	6.2	0.1566	7.9	0.02897	4.9	0.618	184.1	8.9	147.7	10.9	NA	NA	NA
49127-5	721882.9	825765	12448	2.04	17.172	12.8	0.1901	16.2	0.02369	9.9	0.613	150.9	14.8	176.7	26.2	537.7	279.8	71.9
49127-6	2688012	3074828	4976	1.19	21.159	7.7	0.1437	8.8	0.02206	4.4	0.496	140.7	6.1	136.3	11.3	61.3	NA	-129.3
49127-7	1395055	1595809	4559	1.04	20.863	7.5	0.1519	10.4	0.02300	7.2	0.689	146.6	10.4	143.6	13.9	94.9	178.0	-54.5
49127-8	13351009	15272273	23463	1.16	21.092	1.9	0.1416	3.1	0.02167	2.5	0.801	138.2	3.4	134.4	3.9	68.9	44.5	-100.4
49127-10	8728971	9985105	20920	1.85	20.769	2.5	0.1439	3.9	0.02169	2.9	0.765	138.3	4.0	136.6	4.9	105.5	58.7	-31.1
49127-11	2443184	2794768	12689	1.15	20.942	5.2	0.1514	9.5	0.02300	8.0	0.842	146.6	11.6	143.1	12.7	86.0	122.3	-70.5
49127-12	1140857	1305031	2787	1.12	20.408	14.0	0.1581	14.9	0.02341	4.9	0.331	149.2	7.3	149.0	20.6	146.8	NA	-1.6
49127-13	1052093	1203493	2484	1.44	23.866	7.2	0.1315	10.6	0.02278	7.9	0.739	145.2	11.3	125.5	12.5	NA	NA	NA
49127-15	1852182	2118718	8166	1.10	18.705	5.7	0.1640	7.6	0.02225	5.2	0.673	141.9	7.2	154.2	10.9	347.4	127.9	59.2
49127 no CA run 1 (discordant)																		
49127-4	1090336	1247240	4643	0.99	23.411	6.1	0.1447	20.5	0.02459	19.5	0.955	156.6	30.2	137.3	26.3	NA	NA	NA
49127-9	7809481	8933297	8761	1.91	21.388	3.8	0.1400	13.7	0.02172	13.2	0.961	138.5	18.0	133.0	17.1	35.7	NA	-288.0
49127-14	1218558	1393914	3722	1.54	34.109	14.8	0.1802	61.8	0.04460	60.0	0.971	281.3	165.1	168.2	95.9	NA	NA	NA
49127 no CA Run 2																		
49127 1	1712085	1610767	5000	1.18	21.802	10.7	0.1322	11.2	0.02091	3.2	0.286	133.4	4.2	126.1	13.3	10.4	259.1	-1182.7
49127 10	2556589	2405295	5000	1.86	21.63	10.6	0.1355	10.8	0.02126	1.9	0.176	135.6	2.5	129	13.1	8.6	255.3	-1476.7
49127 11	1996308	1878170	46403	1.66	20.523	5	0.143	6	0.0213	3.3	0.55	135.9	4.4	135.8	7.6	133.7	117.9	-1.6
49127 12	594747	559551	5000	1.88	22.207	14.3	0.1337	15	0.02154	4.6	0.305	137.4	6.2	127.4	18	55	349	-149.8
49127 13	1180192	1110351	5000	2.06	21.713	10.4	0.1344	11	0.02118	3.5	0.317	135.1	4.6	128.1	13.2	0.5	251	#####
49127 14	1549589	1457887	24537	1.71	19.72	5.4	0.147	6.4	0.02104	3.5	0.538	134.2	4.6	139.3	8.4	226.6	125.2	40.8
49127 15	1758776	1654695	69357	1.55	20.372	4.8	0.1444	5.4	0.02135	2.6	0.471	136.2	3.4	137	6.9	150.9	112	9.7
49127 16	1652525	1554732	163670	1.33	20.226	5	0.143	5.9	0.02099	3.2	0.541	133.9	4.3	135.7	7.5	167.7	116.8	20.2
49127 17	975979	918222	82457	1.67	19.951	6.4	0.1462	6.9	0.02116	2.7	0.386	135	3.6	138.6	9	199.7	148.5	32.4
49127 18	865814	814577	5000	1.82	21.006	11.1	0.137	11.8	0.02088	4.1	0.343	133.2	5.4	130.3	14.5	78.6	264.2	-69.5
49127 19	1151344	1083210	5000	1.87	21.505	11.2	0.136	11.6	0.02122	3.1	0.269	135.4	4.2	129.5	14.1	22.6	268.1	-499.1
49127 2	12407845	11673573	365080	2.01	20.754	2.3	0.1477	3.1	0.02224	2	0.651	141.8	2.8	139.9	4	107.3	55.4	-32.2
49127 20	1098812	1033786	119437	1.55	20.129	5.9	0.144	7	0.02103	3.7	0.527	134.1	4.9	136.6	8.9	179	137.9	25.1
49127 21	1258029	1183581	238006	1.16	20.379	5.5	0.1424	6.3	0.02106	2.9	0.47	134.4	3.9	135.2	7.9	150.1	129.5	10.5
49127 22	2241735	2109073	5000	1.36	22.166	10.5	0.1305	10.9	0.02099	2.8	0.254	133.9	3.7	124.6	12.8	50.6	256.2	-164.6
49127 23	1518147	1428306	5000	1.34	21.097	11.5	0.1365	12.1	0.02089	3.7	0.307	133.3	4.9	129.9	14.7	68.3	274	-95.2
49127 24	2212860	2081907	41627	1.66	20.506	4	0.1409	4.7	0.02096	2.6	0.54	133.7	3.4	133.8	5.9	135.5	93.7	1.3
49127 25	10130969	9531438	4509535	2.15	20.547	2.1	0.1461	3	0.02178	2.2	0.724	138.9	3	138.4	3.9	130.9	49.4	-6.1
49127 26	1847112	1737803	58523	1.27	20.406	5.3	0.1403	6.3	0.02077	3.4	0.533	132.5	4.4	133.3	7.9	147.1	125	9.9
49127 27	4940122	4647775	33138	1.44	21.113	3	0.1405	4	0.02153	2.6	0.651	137.3	3.5	133.5	5	66.6	71.9	-106.2
49127 28	969050	911703	5000	1.59	20.537	10.8	0.1435	11.8	0.02139	4.6	0.39	136.4	6.2	136.2	15	131.9	254.8	-3.4

49127 29	15506812	14589149	146336	1.84	20.686	2.4	0.15	3.3	0.02251	2.3	0.706	143.5	3.3	141.9	4.4	115	55.5	-24.8
49127 3	2144141	2017255	5000	1.25	22.108	10.2	0.1321	10.8	0.0212	3.7	0.341	135.2	4.9	126	12.8	44.1	247.7	-206.6
49127 30	10869681	10226434	112969	2.17	20.233	2.4	0.1482	3.4	0.02176	2.4	0.709	138.8	3.3	140.3	4.4	166.9	55.4	16.8
49127 4	2649818	2493007	379859	1.21	19.903	6.2	0.1452	7	0.02097	3.2	0.464	133.8	4.3	137.6	9	205.2	143.8	34.8
49127 5	3634532	3419447	106614	1.94	20.701	3.1	0.1428	4.1	0.02145	2.7	0.661	136.8	3.7	135.5	5.3	113.3	73.4	-20.7
49127 6	12922243	12157529	365913	1.36	20.456	2.2	0.1502	2.8	0.0223	1.7	0.614	142.2	2.5	142.1	3.8	141.2	52.7	-0.7
49127 7	17388120	16359124	122205	2.01	20.48	2	0.1514	2.8	0.0225	2.1	0.724	143.4	2.9	143.2	3.8	138.5	46.1	-3.5
49127 8	1643485	1546227	29310	1.24	20.498	5.9	0.1416	6.7	0.02106	3.2	0.477	134.3	4.2	134.5	8.4	136.5	137.7	1.6
49127 9	1344600	1265029	5000	1.19	22.031	11.1	0.1302	11.7	0.02081	3.8	0.321	132.8	5	124.2	13.7	35.7	270.1	-272.0

Composition

Ages

Zircon #	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb	2σ (%)	207Pb/235U (%)	2σ (%)	206Pb/238U (%)	2σ (%)	Error Corr.	206Pb/238U (Ma)	2σ (Ma)	207Pb/235U (Ma)	2σ (Ma)	206Pb/207Pb (Ma)	2σ (Ma)	% Disc.
49127 CA Run 1																		
49127-2	758558.3	998854	830	1.31	24.046	18.1	0.119	18.4	0.02071	3.2	0.176	132.1	4.2	113.9	19.8	NA	NA	NA
49127-4	1043707	1374331	2073	1.66	23.756	5.8	0.129	7.2	0.02222	4.2	0.589	141.7	5.9	123.1	8.3	NA	NA	NA
49127-5	676796.1	891191	1202	1.48	15.038	17.5	0.187	18.6	0.02046	6.4	0.345	130.5	8.3	174.5	29.9	821.2	366.0	84.1
49127-6	16034772	21114249	64816	5.64	20.330	2.3	0.149	3.7	0.02204	2.9	0.780	140.5	4.0	141.4	4.9	155.8	54.6	9.8
49127-7	1104401	1454252	1324	1.11	25.646	13.1	0.119	14.2	0.02216	5.4	0.378	141.3	7.5	114.2	15.3	NA	NA	NA
49127-8	994894.2	1310056	830	1.50	25.599	47.7	0.112	48.1	0.02074	5.6	0.116	132.4	7.3	107.5	49.0	NA	NA	NA
49127-9	1185920	1561594	8406	1.05	19.601	6.8	0.156	7.9	0.02212	4.0	0.508	141.0	5.6	146.8	10.8	240.6	156.4	41.4
49127-10	2415065	3180106	8867	2.06	17.816	7.9	0.171	8.7	0.02206	3.7	0.424	140.7	5.1	160.0	12.9	456.5	175.1	69.2
49127-11	1825963	2404389	8870	1.21	20.277	5.2	0.147	6.9	0.02170	4.5	0.656	138.4	6.2	139.7	9.0	161.9	122.1	14.5
49127-12	1240185	1633049	2237	1.53	18.206	9.8	0.168	10.9	0.02220	4.7	0.431	141.5	6.6	157.7	15.9	408.2	219.2	65.3
49127-13	1986221	2615413	19088	1.81	20.773	4.5	0.146	5.6	0.02202	3.3	0.597	140.4	4.6	138.5	7.2	105.1	105.4	-33.6
49127-14	540655.6	711924	20817	2.10	16.680	12.2	0.176	15.2	0.02136	9.1	0.598	136.3	12.3	165.0	23.2	600.9	264.4	77.3
49127-15	854975.6	1125814	2589	2.36	19.481	9.7	0.147	11.4	0.02074	5.8	0.514	132.3	7.7	139.0	14.8	254.8	224.0	48.1
49127 CA Run 1 (discordant)																		
49127-1	744047	979746	35254	1.59	19.235	10.5	0.176	26.0	0.02460	23.8	0.915	156.6	36.8	164.8	39.6	284.0	240.5	44.8
49127-3	1667076	2195171	6132	1.68	26.640	5.8	0.147	55.5	0.02841	55.2	0.995	180.6	98.3	139.3	72.2	NA	NA	NA
49127 CA Run 2																		
49127 1	1758072	1569307	26367	0.99	20.781	6.8	0.146	7.5	0.02202	3.2	0.423	140.4	4.4	138.4	9.7	104.1	160.1	-34.9
49127 10	1427984	1274661	5000	1.03	22.118	10.7	0.1353	11.2	0.02171	3.2	0.289	138.4	4.4	128.8	13.5	45.3	260.5	-205.5
49127 11	1089071	972137	5000	1.53	20.94	10.7	0.1415	11	0.02149	2.7	0.244	137.1	3.6	134.3	13.9	86.2	253.9	-59.0
49127 13	1442638	1287741	883376	1.01	19.968	5.8	0.1548	6.8	0.02243	3.6	0.523	143	5	146.1	9.3	197.7	135.4	27.7
49127 14	23596800	21063202	1575986	5.21	20.332	1.9	0.145	3.1	0.02139	2.5	0.791	136.5	3.3	137.5	4	155.5	44.7	12.2
49127 15	14980021	13371610	330434	4.3	20.491	2.1	0.1462	3.2	0.02173	2.5	0.766	138.6	3.4	138.5	4.2	137.3	48.6	-0.9
49127 16	1262943	1127340	116927	1.03	20.516	6.2	0.146	7.1	0.02173	3.3	0.47	138.6	4.6	138.4	9.1	134.3	146.5	-3.2
49127 18	553064	493681	5000	1.73	20.185	12.9	0.1486	13.6	0.02177	4.2	0.312	138.8	5.8	140.7	17.8	172.5	300.8	19.5
49127 19	867730	774561	45134	1.27	20	7.3	0.152	8.1	0.02205	3.6	0.443	140.6	5	143.6	10.9	194	169.8	27.5
49127 2	1589722	1419033	951211	1.27	20.054	5.1	0.1494	5.7	0.02174	2.6	0.457	138.7	3.6	141.4	7.5	187.6	117.7	26.1
49127 20	5012435	4474248	5000	1.63	22.11	2.7	0.136	4.2	0.02182	3.2	0.76	139.1	4.4	129.5	5.1	500	1.0	72.2
49127 21	1341107	1197112	5000	1.04	21.299	10.4	0.139	10.9	0.02148	3	0.277	137	4.1	132.2	13.5	45.7	249.4	-199.8
49127 22	2806768	2505404	54677	1.93	20.269	5.1	0.1491	6	0.02192	3.1	0.514	139.8	4.2	141.1	7.9	162.8	119.7	14.1

49127 23	769344	686739	5000	1.45	21.851	12.8	0.1382	13.4	0.02191	4.1	0.304	139.7	5.6	131.4	16.6	15.8	309.6	-784.2
49127 24	1435118	1281029	88472	1.09	20.439	6.1	0.1476	6.8	0.0219	3.1	0.454	139.6	4.3	139.8	8.9	143.3	142.6	2.6
49127 25	1221431	1090285	5000	1.38	22.332	11.4	0.1343	12	0.02176	4	0.329	138.8	5.4	127.9	14.5	68.8	278.0	-101.7
49127 26	1929505	1722333	46441	1.46	20.975	5.9	0.1438	7.1	0.02188	3.8	0.543	139.5	5.3	136.4	9	82.1	141.1	-69.9
49127 27	1268489	1132291	5000	1.47	22.051	6.5	0.1355	7.5	0.02168	3.8	0.505	138.3	5.2	129	9.1	38	157.9	-263.9
49127 28	2837379	2532728	35382	1.29	21.548	5.4	0.1426	6.3	0.0223	3.2	0.502	142.2	4.4	135.4	8	17.8	130.6	-698.9
49127 29	1359013	1213095	5000	1.23	21.738	10.9	0.1349	11.3	0.02128	2.8	0.245	135.8	3.7	128.5	13.6	3.3	263.6	-4015.2
49127 3	1340713	1196760	5000	1.07	21.554	10.7	0.1388	11.3	0.02171	3.7	0.325	138.5	5	132	14	17.1	256.4	-709.9
49127 30	2948901	2632276	61717	2.01	20.468	4.6	0.146	4.9	0.02169	1.9	0.376	138.3	2.5	138.4	6.4	139.9	107.7	1.1
49127 4	2676698	2389300	31403	1.73	20.176	4.9	0.147	5.5	0.02152	2.6	0.477	137.2	3.6	139.2	7.2	173.5	113.8	20.9
49127 5	1459924	1303171	5000	0.99	22.831	11.2	0.1294	11.7	0.02144	3.5	0.3	136.8	4.8	123.6	13.6	123	275.9	-11.2
49127 7	5723753	5109191	140926	1.46	20.574	3.6	0.147	4.6	0.02194	2.9	0.618	139.9	4	139.2	6	127.8	85.8	-9.5
49127 8	2935910	2620680	32451	2.33	21.206	3.9	0.1417	4.7	0.02181	2.6	0.555	139.1	3.6	134.6	5.9	56.1	93.4	-148.0
49127 9	1205409	1075984	5000	1.28	22.01	11.5	0.1373	12.2	0.02192	3.9	0.321	139.8	5.4	130.6	14.9	33.4	279.9	-318.6

TABLE S4: PLESOVICE LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition										Ages							
	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U (%)	2σ	206Pb/238U (%)	2σ	Error Corr.	206Pb/238U (Ma)	2σ	207Pb/235U (Ma)	2σ	206Pb/207Pb (Ma)	2σ	% Disc.
Plesovice no CA Run 1																		
PLES-1	6332766	7244076	30466	10.41	19.430	1.8	0.3936	3.0	0.05549	2.4	0.800	348.1	8.1	337.0	8.6	260.8	41.3	-33.5
PLES-2	8149195	9321898	909024	8.94	19.018	2.2	0.3935	3.6	0.05430	2.8	0.787	340.9	9.3	336.9	10.2	309.8	50.1	-10.0
PLES-3	8439028	9653439	35296	11.27	18.287	2.7	0.4036	3.6	0.05356	2.4	0.673	336.3	8.0	344.3	10.6	398.4	59.9	15.6
PLES-4	5455789	6240899	17028	10.80	19.104	2.0	0.3971	3.3	0.05505	2.6	0.789	345.4	8.6	339.6	9.4	299.5	45.7	-15.4
PLES-5	5586737	6390691	6644	7.19	16.538	6.1	0.4318	6.9	0.05182	3.4	0.487	325.7	10.7	364.5	21.2	619.3	130.8	47.4
PLES-6	7017099	8026888	52298	12.34	18.241	2.0	0.3918	3.6	0.05185	3.0	0.831	325.9	9.6	335.7	10.4	404.0	45.3	19.3
PLES-7	11330346	12960829	13641	9.48	18.996	1.8	0.3909	3.6	0.05388	3.1	0.873	338.3	10.3	335.0	10.3	312.5	39.9	-8.3
PLES-8	7922629	9062727	71383	6.97	18.606	1.6	0.3868	2.7	0.05222	2.1	0.795	328.1	6.8	332.0	7.6	359.4	36.7	8.7
PLES-9	5832008	6671258	13681	10.34	18.979	1.7	0.3955	3.1	0.05447	2.6	0.838	341.9	8.6	338.4	8.9	314.5	38.4	-8.7
PLES-10	7993970	9144335	16009	7.39	19.028	1.6	0.3736	3.0	0.05159	2.5	0.852	324.3	8.0	322.3	8.2	308.6	35.4	-5.1
PLES-11	4739117	5421095	40487	10.23	18.848	2.3	0.3959	3.5	0.05414	2.7	0.770	339.9	9.0	338.7	10.2	330.2	51.1	-2.9
PLES-12	5101269	5835362	8619	11.80	19.493	1.7	0.3733	2.7	0.05280	2.0	0.756	331.7	6.5	322.1	7.4	253.3	40.1	-30.9
PLES-13	6838628	7822734	311201	9.49	18.582	2.1	0.3903	3.4	0.05262	2.6	0.773	330.6	8.4	334.6	9.6	362.3	48.0	8.8
PLES-14	4733031	5414133	22518	11.46	19.112	1.9	0.3957	3.1	0.05487	2.4	0.779	344.3	8.0	338.5	8.8	298.6	43.9	-15.3
PLES-15	6251401	7151003	69525	9.51	18.164	6.2	0.3801	10.8	0.05010	8.9	0.818	315.1	27.3	327.1	30.3	413.4	139.1	23.8
Plesovice no CA Run 2																		
PLES 1	7640940	7188764	3475891	10.39	18.775	1.5	0.3969	3.1	0.05407	2.7	0.875	339.4	8.9	339.4	8.9	338.9	33.8	-0.1
PLES 10	8203349	7717891	278674	7.82	18.878	2.3	0.3971	3.2	0.05439	2.3	0.712	341.4	7.7	339.5	9.4	326.6	51.8	-4.5
PLES 11	6360004	5983631	141751	11.36	18.757	1.8	0.4001	2.5	0.05446	1.8	0.71	341.8	5.9	341.7	7.3	341.2	39.8	-0.2
PLES 12	6748903	6349516	193554	10.9	18.828	2.2	0.4001	3.1	0.05466	2.3	0.727	343	7.6	341.7	9.1	332.6	48.9	-3.1
PLES 13	7890831	7423867	631867	10.08	19.032	2.2	0.3984	3	0.05501	2	0.678	345.2	6.9	340.5	8.7	308.1	50.4	-12.0
PLES 14	9461436	8901526	421926	11.7	18.728	1.8	0.4009	2.8	0.05448	2.2	0.772	342	7.2	342.3	8.2	344.6	40.4	0.8
PLES 15	6095434	5734718	100432	10.27	18.646	3	0.401	3.7	0.05425	2.2	0.592	340.6	7.4	342.4	10.9	354.6	68.2	3.9
PLES 16	9433873	8875595	352390	9.05	18.661	1.9	0.4042	3	0.05473	2.4	0.775	343.5	7.9	344.7	8.9	352.7	43.4	2.6
PLES 17	6821496	6417813	95526	10.71	18.884	2.1	0.397	2.8	0.0544	2	0.686	341.5	6.5	339.5	8.2	325.9	47.1	-4.8
PLES 18	4883820	4594805	125413	11.87	18.844	2.8	0.3975	3.8	0.05435	2.6	0.68	341.1	8.6	339.8	11	330.7	63.4	-3.1
PLES 19	5230072	4920566	1930616	12	18.678	2.3	0.3916	3.6	0.05307	2.8	0.766	333.3	9	335.5	10.3	350.7	52.5	5.0
PLES 2	6587492	6197657	233580	11.11	18.889	2.4	0.392	3.1	0.05373	2	0.648	337.4	6.7	335.9	9	325.2	54.3	-3.8
PLES 20	7692866	7237617	254832	9.47	18.827	1.9	0.3969	3	0.05422	2.3	0.761	340.4	7.5	339.4	8.6	332.7	43.9	-2.3
PLES 21	9688366	9115027	248248	11.71	18.741	1.9	0.4019	3	0.05465	2.3	0.779	343	7.7	343	8.6	343	42	NA
PLES 22	9360399	8806469	1559801	9.35	18.737	1.7	0.4017	3	0.05462	2.4	0.818	342.8	8.1	342.9	8.7	343.6	38.8	0.2
PLES 23	4994553	4698985	89908	12.22	19.083	2	0.3916	2.7	0.05422	1.9	0.687	340.4	6.2	335.5	7.8	301.9	45.4	-12.8
PLES 24	6699049	6302612	345662	10.94	19.013	2.5	0.3894	3.1	0.05373	1.9	0.612	337.4	6.3	334	8.9	310.4	56.3	-8.7
PLES 25	8715373	8199614	749096	9.3	18.806	2.1	0.4038	2.8	0.0551	1.9	0.675	345.8	6.4	344.4	8.2	335.3	47.2	-3.1
PLES 26	9312910	8761790	355916	7	18.911	1.8	0.3987	3.1	0.05471	2.6	0.827	343.4	8.7	340.7	9.1	322.6	40	-6.4
PLES 27	6254734	5884591	367729	11.22	18.87	2	0.3948	2.6	0.05405	1.7	0.64	339.3	5.6	337.9	7.5	327.5	45.7	-3.6
PLES 28	3948978	3715285	453797	12.66	18.843	2.6	0.3934	3.1	0.05379	1.8	0.572	337.8	5.9	336.9	8.9	330.8	57.9	-2.1
PLES 29	10761070	10124251	251304	10.43	18.749	2.2	0.3977	3.3	0.05411	2.5	0.756	339.7	8.2	340	9.5	342.1	48.7	0.7

PLES 3	4627135	4353310	99796	12.89	19.038	2.1	0.3885	3.3	0.05366	2.5	0.765	337	8.2	333.3	9.3	307.4	47.9	-9.6
PLES 30	6085308	5725191	111749	11.39	18.854	1.8	0.3922	3.1	0.05365	2.6	0.829	336.9	8.5	335.9	9	329.5	39.7	-2.2
PLES 4	6713007	6315744	149313	10.72	18.87	1.7	0.3979	2.7	0.05448	2.1	0.779	342	7.1	340.1	7.9	327.5	38.8	-4.4
PLES 5	6337858	5962796	291687	11.28	18.854	2.4	0.3956	2.9	0.05412	1.7	0.575	339.8	5.6	338.5	8.5	329.4	54.5	-3.2
PLES 6	9082358	8544882	253595	9.26	18.955	2.3	0.3977	3	0.0547	1.9	0.646	343.3	6.4	340	8.6	317.3	51.7	-8.2
PLES 7	6768072	6367551	181777	10.63	18.816	2	0.3979	2.8	0.05432	2	0.708	341	6.5	340.1	8.1	334	44.6	-2.1
PLES 8	6468241	6085463	660847	12.91	18.808	2.5	0.3993	3.3	0.05449	2.2	0.656	342	7.2	341.1	9.5	335	56.3	-2.1
PLES 9	5314619	5000110	152767	10.88	18.699	2.3	0.4015	3.7	0.05447	2.9	0.78	341.9	9.7	342.7	10.8	348.2	52.5	1.8

Composition

Ages

Zircon	U	U (norm)	206Pb/	U/Th	206Pb/	2 σ	207Pb/	2 σ	206Pb/	2 σ	Corr.	206Pb/	2 σ	207Pb/	2 σ	206Pb/	2 σ	%
#	(238 cps)	(238 cps)	204Pb		207Pb	(%)	235U	(%)	238U	(%)		238U	(Ma)	235U	(Ma)	207Pb	(Ma)	Disc.

Plesovice CA Run 1

PLES-1	3652845	4809989	198348	11.56	18.777	2.1	0.3976	3.2	0.05416	2.4	0.757	340.0	8.0	339.9	9.2	338.8	47.0	-0.4
PLES-2	6063941	7984869	38777	6.17	18.772	1.8	0.3976	3.5	0.05416	3.0	0.862	340.0	9.9	339.9	10.0	339.4	39.6	-0.2
PLES-3	3710232	4885555	43405	9.73	18.785	2.1	0.4000	3.2	0.05452	2.4	0.765	342.2	8.2	341.6	9.3	337.8	46.7	-1.3
PLES-4	2791011	3675144	13699	10.22	18.896	2.8	0.3919	4.1	0.05373	3.0	0.731	337.4	9.8	335.8	11.7	324.5	63.3	-4.0
PLES-5	2405240	3167169	27229	6.49	18.819	2.2	0.3954	3.9	0.05399	3.2	0.825	338.9	10.6	338.3	11.2	333.7	50.0	-1.6
PLES-6	3349149	4410089	36349	7.94	18.686	1.4	0.3914	2.3	0.05307	1.7	0.773	333.3	5.7	335.4	6.4	349.7	32.3	4.7
PLES-7	6052893	7970322	21642	6.44	18.988	2.0	0.3920	3.3	0.05400	2.6	0.785	339.1	8.5	335.8	9.3	313.4	46.0	-8.2
PLES-8	4766646	6276619	26111	10.13	19.253	1.8	0.3859	3.5	0.05390	3.0	0.851	338.5	9.8	331.4	9.8	281.8	41.7	-20.1
PLES-9	4429343	5832465	13733	10.47	19.032	2.4	0.3844	3.5	0.05309	2.6	0.728	333.4	8.3	330.3	9.9	308.2	54.8	-8.2
PLES-10	6114471	8051407	17676	6.35	19.213	2.1	0.3812	3.6	0.05315	2.9	0.809	333.8	9.5	327.9	10.1	286.5	48.5	-16.5
PLES-11	7585849	9988886	33083	10.74	19.484	2.2	0.3826	3.7	0.05409	3.0	0.810	339.6	9.9	328.9	10.3	254.4	49.7	-33.5
PLES-12	6435835	8474572	11443	10.51	19.405	2.9	0.3933	3.8	0.05538	2.5	0.660	347.5	8.6	336.8	11.0	263.8	66.1	-31.7
PLES-14	4600034	6057227	6611	12.07	19.862	4.4	0.3855	11.0	0.05556	10.1	0.915	348.5	34.3	331.1	31.2	210.0	102.9	-66.0
PLES-15	3803583	5008478	5199	11.21	19.743	2.3	0.3839	3.8	0.05499	3.0	0.795	345.1	10.1	329.9	10.6	223.9	52.7	-54.1

Plesovice CA Run 1 (discordant)

PLES-13	4675079	6156045	16221	9.46	21.128	4.7	0.3948	25.0	0.06052	24.5	0.982	378.8	90.2	337.9	71.8	64.9	110.9	-483.6
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Plesovice CA Run 2

Ples 1	4773157	4260661	87745	10.53	18.835	2.7	0.4004	3.3	0.05473	1.9	0.589	343.5	6.5	342	9.6	331.8	60.4	-3.5
Ples 10	7577053	6763502	599546	9.19	18.963	2.5	0.3972	3.5	0.05465	2.5	0.717	343	8.5	339.6	10.2	316.3	56	-8.4
Ples 11	3921938	3500838	151852	11.13	18.648	1.8	0.4058	2.7	0.0549	2	0.729	344.6	6.6	345.8	7.9	354.4	41.7	2.8
Ples 12	5063522	4519850	81099	10.79	18.925	2.3	0.401	3.6	0.05506	2.8	0.779	345.5	9.5	342.3	10.6	321	51.9	-7.6
Ples 13	4166372	3719027	268490	11.48	18.925	1.6	0.4004	2.8	0.05498	2.3	0.822	345	7.8	341.9	8.2	321	36.7	-7.5
Ples 14	3660499	3267470	81640	11.78	18.693	3	0.4033	4.4	0.0547	3.2	0.728	343.3	10.7	344	12.9	348.9	68.3	1.6
Ples 15	3642072	3251021	313142	11.57	18.966	2	0.4007	3.5	0.05515	2.8	0.81	346.1	9.4	342.2	10	315.9	46.1	-9.6
Ples 16	3530141	3151108	233754	11.61	18.994	3.4	0.4007	4.4	0.05522	2.9	0.647	346.5	9.7	342.1	12.8	312.6	76.7	-10.8
Ples 17	4896592	4370843	341651	10.51	18.612	2	0.4102	2.9	0.05539	2.1	0.716	347.6	7.1	349	8.6	358.7	45.9	3.1
Ples 18	6019279	5372987	399392	9.9	18.818	2.3	0.4066	2.9	0.05552	1.8	0.625	348.3	6.2	346.4	8.6	333.8	51.9	-4.3
Ples 19	8640789	7713024	343685	6.85	18.7	2.1	0.408	3.1	0.05536	2.2	0.721	347.4	7.5	347.5	9.1	348	48.5	0.2
Ples 2	4013910	3582935	319188	11.04	18.76	2	0.3994	3.2	0.05437	2.5	0.78	341.3	8.4	341.2	9.3	340.7	45.6	-0.2
Ples 20	5577652	4978777	232811	10.13	18.573	2.4	0.4102	3.4	0.05528	2.4	0.713	346.9	8.2	349	10	363.4	53.6	4.5
Ples 21	8465635	7556676	236821	5.97	18.615	2.1	0.4025	3.3	0.05436	2.6	0.776	341.2	8.5	343.4	9.7	358.3	47.2	4.8

Ples 22	8634642	7707537	2259381	6.57	18.807	2.4	0.4106	3.3	0.05603	2.2	0.668	351.4	7.5	349.3	9.7	335.1	55.2	-4.9
Ples 23	5277041	4710443	617220	11.76	18.794	2.3	0.4014	3.7	0.05473	3	0.794	343.5	9.9	342.6	10.9	336.7	51.4	-2.0
Ples 24	4841910	4322032	85245	9.64	18.694	2.3	0.4028	3.3	0.05463	2.3	0.703	342.9	7.7	343.7	9.5	348.8	52.4	1.7
Ples 25	3961729	3536357	44589	10.39	19.173	2.7	0.3903	3.6	0.0543	2.4	0.658	340.9	7.8	334.6	10.2	291.3	61.6	-17.0
Ples 26	5430391	4847328	162548	10.43	18.789	2.5	0.4005	3.1	0.0546	1.9	0.596	342.7	6.2	342	9	337.3	56.4	-1.6
Ples 27	6356981	5674429	205513	8.43	18.793	3.2	0.3972	4	0.05416	2.5	0.614	340	8.1	339.6	11.5	336.8	71.4	-1.0
Ples 28	6550131	5846841	198228	9.36	18.784	2.5	0.4012	3.3	0.05468	2.2	0.659	343.2	7.2	342.5	9.5	337.9	55.7	-1.6
Ples 29	6234683	5565263	1114465	9.13	18.629	2.4	0.3939	3.2	0.05325	2.1	0.657	334.4	6.8	337.2	9.1	356.6	54	6.2
Ples 3	7011146	6258356	392546	9.63	18.904	2.1	0.3974	3	0.05452	2.2	0.725	342.2	7.4	339.8	8.8	323.4	47.6	-5.8
Ples 30	6051088	5401380	1012948	9.16	18.813	2.2	0.3969	3.2	0.05418	2.3	0.724	340.1	7.6	339.4	9.2	334.4	49.7	-1.7
Ples 4	5766499	5147348	47466	9.58	18.87	3.3	0.3974	4.4	0.05441	2.8	0.648	341.5	9.4	339.7	12.6	327.6	75.3	-4.2
Ples 5	6555216	5851380	533642	9.72	18.612	2.2	0.4013	3	0.05419	2.1	0.681	340.2	6.8	342.6	8.8	358.6	49.8	5.1
Ples 6	6350067	5668258	995204	8.39	18.839	2	0.4034	2.8	0.05515	2	0.704	346.1	6.7	344.1	8.2	331.2	45.3	-4.5
Ples 7	8155578	7279910	513284	8.23	18.904	2.2	0.4036	3.4	0.05536	2.6	0.767	347.3	8.7	344.2	9.8	323.4	49.2	-7.4
Ples 8	6257155	5585322	89714	8.84	18.604	2.8	0.4038	4.1	0.0545	2.9	0.718	342.1	9.8	344.4	11.9	359.6	64.1	4.9
Ples 9	4700873	4196138	644052	10.77	18.952	2.6	0.3988	3.7	0.05484	2.7	0.716	344.2	9	340.8	10.8	317.7	59.3	-8.3

TABLE S5: TEMORA 2 LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition										Ages							
	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U	2σ (%)	206Pb/238U (%)	2σ (%)	Error Corr.	206Pb/238U (Ma)	2σ (Ma)	207Pb/235U (Ma)	206Pb/207Pb (Ma)	% Disc.		
Temora 2 no CA Run 1																		
TEM-1	771982	883074	308674	3.33	17.67	5.0	0.535	6.5	0.06864	4.2	0.644	427.9	17.4	435.3	23.0	474.2	110.2	9.8
TEM-2	17390593	19893170	41775	1.46	18.01	2.5	0.520	3.6	0.06799	2.5	0.707	424.0	10.3	425.3	12.4	432.0	56.2	1.8
TEM-3	1845010	2110515	84894	3.91	18.38	3.2	0.507	4.4	0.06755	3.0	0.683	421.4	12.3	416.1	15.1	386.9	72.4	-8.9
TEM-4	4871818	5572892	24198	2.89	17.60	4.8	0.540	5.3	0.06896	2.4	0.444	429.9	9.8	438.4	19.0	483.4	105.5	11.1
TEM-5	1664898	1904484	17194	1.67	18.46	2.8	0.518	4.0	0.06936	2.8	0.698	432.3	11.6	423.7	13.8	377.5	64.0	-14.5
TEM-6	1362606	1558690	18099	4.57	17.92	3.1	0.533	4.3	0.06927	2.9	0.684	431.8	12.3	433.6	15.2	443.1	69.8	2.5
TEM-7	1084019	1240013	32424	3.44	17.64	3.8	0.523	5.1	0.06694	3.4	0.663	417.7	13.7	427.1	17.9	477.9	84.9	12.6
TEM-8	11685742	13367367	55825	1.47	18.01	1.5	0.510	3.0	0.06663	2.6	0.869	415.8	10.5	418.3	10.3	431.8	33.1	3.7
TEM-9	3195134	3654927	122329	1.99	18.25	1.9	0.505	3.7	0.06681	3.2	0.861	416.9	12.9	414.9	12.6	403.5	42.2	-3.3
TEM-10	3318163	3795660	131674	2.01	18.13	1.9	0.522	3.1	0.06870	2.5	0.797	428.3	10.3	426.6	10.8	417.0	42.0	-2.7
TEM-11	1751352	2003378	9518	4.13	19.02	2.8	0.501	3.7	0.06915	2.4	0.651	431.0	10.2	412.4	12.7	309.7	64.7	-39.2
TEM-13	2476537	2832921	5567	1.94	18.18	3.3	0.507	4.9	0.06686	3.6	0.736	417.2	14.5	416.3	16.7	411.2	74.1	-1.5
TEM-14	4035773	4616537	141229	4.03	17.91	2.3	0.525	3.3	0.06823	2.3	0.708	425.5	9.6	428.6	11.6	445.4	52.0	4.5
TEM-15	4135288	4730373	32072	2.14	18.27	3.0	0.508	4.6	0.06733	3.5	0.764	420.1	14.3	417.0	15.8	400.0	66.6	-5.0
Temora 2 no CA Run 1 (discordant)																		
TEM-12	786181	899315	6390	1.28	18.83	8.0	0.889	60.5	0.12149	60.0	0.991	739.1	419.1	646.0	291.3	332.7	181.9	-122.2
Temora 2 no CA Run 2																		
TEM 1	1287979	1211759	49162	3.91	18.305	2.4	0.488	3.9	0.0648	3	0.774	404.8	11.7	403.5	12.9	396.1	54.8	-2.2
TEM 10	1680248	1580814	52641	1.88	18.525	2.9	0.5012	4.2	0.0674	3.1	0.722	420.3	12.4	412.5	14.4	369.3	66	-13.8
TEM 11	10519152	9896649	125663	2.19	18.093	1.5	0.5172	2.8	0.0679	2.3	0.839	423.5	9.5	423.2	9.6	422.1	33.7	-0.3
TEM 12	5095069	4793553	64074	1.85	18.307	2.2	0.5162	3	0.0686	2	0.678	427.5	8.4	422.6	10.4	395.8	49.6	-8.0
TEM 13	1531942	1441285	32596	3.86	18.16	2.7	0.5033	4.1	0.0663	3.1	0.759	413.9	12.4	413.9	13.9	413.9	59.4	NA
TEM 14	795216	748157	46718	2.36	18.511	4.9	0.5062	6.7	0.068	4.6	0.679	424	18.8	415.9	23	371	111.4	-14.3
TEM 15	3184630	2996170	258570	2.03	18.017	2.9	0.496	4.2	0.0649	3	0.715	405	11.8	409	14.2	431.5	65.6	6.1
TEM 16	7519673	7074673	183024	2.1	17.924	2	0.516	3	0.0671	2.3	0.759	418.7	9.3	422.5	10.5	443	43.9	5.5
TEM 17	3477525	3271732	98274	2.17	18.078	1.9	0.5132	3.5	0.0673	3	0.844	420	12.1	420.6	12.1	424	42	0.9
TEM 18	18036007	16968671	1707168	1.69	18.103	2	0.5505	3.1	0.0723	2.4	0.767	450	10.4	445.3	11.2	420.8	44.5	-6.9
TEM 19	1357461	1277129	62264	4.21	18.34	4.1	0.4966	5.3	0.0661	3.4	0.639	412.5	13.5	409.4	17.9	391.8	91.6	-5.3
TEM 2	1348521	1268718	20551	3.76	18.646	3.7	0.4974	4.6	0.0673	2.7	0.592	419.8	11.1	409.9	15.6	354.5	84.1	-18.4
TEM 20	1555004	1462982	193361	2.93	18.161	2.6	0.5054	4.5	0.0666	3.6	0.814	415.6	14.7	415.3	15.2	413.7	58.1	-0.5
TEM 21	2020086	1900541	187120	4.47	18.303	2.3	0.5006	3.4	0.0665	2.5	0.737	415	10.1	412.1	11.5	396.3	51.6	-4.7
TEM 22	1516967	1427196	41218	4.19	18.257	2.9	0.5028	4	0.0666	2.7	0.683	415.6	10.9	413.6	13.4	402	64.6	-3.4
TEM 23	5585812	5255254	366736	2.31	18.088	1.8	0.5039	3	0.0661	2.4	0.789	412.8	9.4	414.3	10.1	422.8	40.9	2.4
TEM 24	1942921	1827943	65799	2.95	18.388	3.2	0.4988	3.9	0.0666	2.3	0.579	415.4	9.1	410.9	13.2	385.9	71.5	-7.6
TEM 25	5512001	5185811	419441	3.05	18.191	2.7	0.5141	3.9	0.0679	2.8	0.719	423.2	11.4	421.2	13.3	410.1	59.9	-3.2
TEM 26	8156220	7673551	210138	2.14	17.842	2.5	0.5182	3.5	0.0671	2.4	0.699	418.6	9.8	424	12	453.3	55.2	7.7
TEM 27	1784755	1679137	35093	2.33	18.187	2.7	0.5043	3.7	0.0666	2.5	0.677	415.4	10	414.6	12.5	410.5	60.6	-1.2
TEM 28	1842981	1733917	56860	2.16	18.359	3.4	0.4969	4.6	0.0662	3.1	0.676	413.2	12.6	409.6	15.7	389.4	76.7	-6.1

TEM 29	3790541	3566224	1159095	2.9	18.188	2.5	0.5129	3.8	0.0677	2.9	0.754	422.2	11.8	420.4	13.2	410.5	56.3	-2.9
TEM 3	1087943	1023561	2042540	2.93	18.082	4.3	0.5056	6.1	0.0663	4.3	0.708	414	17.4	415.5	20.9	423.5	96.4	2.2
TEM 30	1886919	1775255	96164	2.09	18.074	2.9	0.508	4.6	0.0666	3.6	0.778	415.7	14.4	417.1	15.8	424.5	64.7	2.1
TEM 4	1374632	1293284	52883	2.58	18.146	2.9	0.4956	4.4	0.0653	3.3	0.758	407.5	13.2	408.7	14.8	415.6	64.2	1.9
TEM 5	2080100	1957004	30481	2.01	18.122	3.7	0.5075	4.5	0.0667	2.5	0.557	416.4	10	416.7	15.3	418.5	83	0.5
TEM 6	2274887	2140264	230392	2.11	18.193	2.4	0.5017	3.6	0.0662	2.7	0.746	413.4	10.8	412.9	12.3	409.8	54.1	-0.9
TEM 7	1574982	1481778	21274	3.47	18.536	3.5	0.5065	4.1	0.0681	2.2	0.526	424.9	8.9	416.1	14.1	367.9	79.1	-15.5
TEM 8	3461906	3257037	138532	3.26	18.489	2.5	0.4961	3.6	0.0666	2.6	0.716	415.4	10.5	409.1	12.2	373.6	57	-11.2
TEM 9	1507267	1418070	27664	2.6	18.742	3.2	0.5016	3.9	0.0682	2.3	0.59	425.4	9.5	412.8	13.3	342.9	71.8	-24.1

Composition

Ages

Zircon #	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U (%)	2σ	206Pb/238U (%)	2σ	Error Corr.	206Pb/238U (Ma)	2σ	207Pb/235U (Ma)	2σ	206Pb/207Pb (Ma)	2σ	% Disc.
Temora 2 CA Run 1																		
TEM-1	1468416	1933580	3978	2.93	18.910	2.8	0.4931	4.2	0.06766	3.1	0.741	422.0	12.6	407.0	14.0	322.8	63.5	-30.7
TEM-2	878868	1157275	9978	3.42	18.105	3.2	0.5039	4.2	0.06619	2.7	0.638	413.2	10.7	414.3	14.3	420.7	72.1	1.8
TEM-3	1293231	1702900	3892	4.08	18.886	3.1	0.4835	4.5	0.06625	3.3	0.730	413.5	13.1	400.5	14.8	325.7	69.3	-27.0
TEM-4	1118448	1472749	5386	3.12	17.995	6.1	0.5133	6.7	0.06702	2.9	0.431	418.2	11.8	420.6	23.2	434.3	135.6	3.7
TEM-5	1964009	2586165	45450	2.58	17.965	2.0	0.5282	4.0	0.06885	3.4	0.856	429.2	14.1	430.6	13.9	438.0	45.5	2.0
TEM-6	1813224	2387615	32428	2.96	18.204	2.8	0.5224	4.4	0.06901	3.4	0.775	430.2	14.3	426.8	15.4	408.4	62.5	-5.3
TEM-7	710590	935690	6081	2.42	17.953	5.8	0.5023	7.7	0.06543	5.1	0.660	408.5	20.0	413.2	26.0	439.5	128.2	7.0
TEM-8	1648203	2170319	3012	2.10	19.635	2.5	0.4670	3.5	0.06653	2.4	0.701	415.2	9.8	389.1	11.2	236.6	57.1	-75.5
TEM-9	2214750	2916336	14338	2.29	18.332	2.8	0.4985	4.7	0.06631	3.7	0.797	413.9	14.9	410.7	15.8	392.8	63.2	-5.4
TEM-10	1474534	1941635	9956	1.67	18.687	2.6	0.5075	3.5	0.06882	2.4	0.682	429.0	10.0	416.8	12.0	349.6	58.2	-22.7
TEM-11	978533	1288511	11441	1.65	18.691	3.4	0.4936	4.6	0.06694	3.1	0.684	417.7	12.7	407.3	15.4	349.2	75.9	-19.6
TEM-12	2069561	2725154	35825	2.30	18.276	2.7	0.4966	4.8	0.06585	3.9	0.828	411.1	15.7	409.4	16.1	399.7	59.9	-2.8
TEM-13	1103957	1453667	9813	1.83	17.556	2.9	0.5233	5.3	0.06666	4.4	0.831	416.0	17.6	427.3	18.4	489.0	64.7	14.9
TEM-14	1852485	2439312	6866	2.16	19.010	4.7	0.4742	5.6	0.06541	3.1	0.550	408.4	12.2	394.1	18.4	310.7	106.9	-31.4
TEM-15	759323	999860	9851	2.98	18.132	4.0	0.5027	5.3	0.06614	3.4	0.654	412.9	13.8	413.6	17.9	417.4	89.0	1.1
Temora 2 CA Run 2																		
TEM 1	725569	647664	30198	2.31	17.885	4	0.5206	5.6	0.0676	4	0.707	421.5	16.1	425.6	19.5	447.9	88	5.9
TEM 10	951964	849751	21580	3.01	18.386	3.9	0.4984	5	0.0665	3.1	0.62	415	12.5	410.6	16.9	386.2	88.2	-7.5
TEM 11	2024635	1807249	313297	2.19	17.863	2.9	0.5103	3.6	0.0662	2.1	0.578	412.9	8.3	418.7	12.3	450.6	64.8	8.4
TEM 12	1612690	1439535	20991	2	18.122	3.1	0.4996	4.2	0.0657	2.8	0.671	410.1	11.2	411.4	14.2	418.5	69.4	2.0
TEM 13	1639769	1463706	5000	3.78	19.142	8.7	0.4798	9.2	0.0666	2.9	0.319	415.9	11.9	397.9	30.4	295	199.5	-41.0
TEM 14	1341374	1197350	86122	3.58	18.329	3.1	0.5051	4.7	0.0672	3.5	0.754	419.2	14.4	415.2	16	393.1	69.1	-6.6
TEM 15	2040577	1821479	41234	3.34	18.257	2.9	0.4991	4.1	0.0661	2.9	0.71	412.7	11.7	411.1	13.9	402	65	-2.7
TEM 16	3385220	3021748	308778	2.27	18.245	2.5	0.5085	3.3	0.0673	2.1	0.656	420	8.7	417.5	11.2	403.5	55.1	-4.1
TEM 17	1054536	941310	5000	4.31	19.5	9.3	0.4763	10.1	0.0674	4	0.393	420.4	16.2	395.5	33.2	252.5	214.3	-66.5
TEM 18	2923349	2609468	127328	1.9	18.055	2.6	0.5089	3.6	0.0667	2.5	0.687	416.1	9.9	417.7	12.3	426.8	58	2.5
TEM 19	2940852	2625092	177737	2.26	17.996	3	0.5095	4.2	0.0665	2.9	0.693	415.2	11.6	418.1	14.3	434.2	66.9	4.4
TEM 2	2099968	1874494	143336	2.22	18.311	3	0.5129	4.1	0.0682	2.7	0.663	425	11.1	420.4	14	395.3	68.1	-7.5
TEM 20	694359	619805	20118	2.98	18.484	5.7	0.5104	6.7	0.0685	3.6	0.537	426.8	15	418.7	23.1	374.2	127.9	-14.1
TEM 21	1039081	927514	28577	3.84	18.508	4.3	0.4966	5.4	0.0667	3.2	0.594	416.1	12.9	409.4	18.1	371.3	97.3	-12.1

TEM 22	2434258	2172891	37491	1.91	18.324	2.6	0.4999	3.4	0.0665	2.2	0.636	414.8	8.7	411.6	11.5	393.7	58.9	-5.4
TEM 23	688343	614435	5000	2.56	19.717	9.8	0.4709	10.6	0.0674	4.2	0.392	420.3	17	391.8	34.6	226.9	226.4	-85.2
TEM 24	1666478	1487548	45882	1.64	18.113	2.2	0.5122	3.3	0.0673	2.4	0.728	420	9.7	419.9	11.3	419.7	50.2	-0.1
TEM 25	556582	496822	5000	3.54	18.757	9.9	0.4881	10.9	0.0664	4.5	0.41	414.6	17.9	403.6	36.2	341.1	224.8	-21.5
TEM 26	3179101	2837760	115805	2.31	18.301	2.7	0.5032	4	0.0668	3	0.735	417	12	413.9	13.7	396.5	61.4	-5.2
TEM 27	2049969	1829863	46965	3.07	18.331	3.6	0.4922	5.8	0.0655	4.5	0.78	408.8	17.8	406.4	19.3	392.9	80.8	-4.0
TEM 28	2539002	2266388	116446	3.53	18.101	2.7	0.501	3.3	0.0658	1.9	0.568	410.8	7.4	412.4	11.1	421.1	60.3	2.4
TEM 29	4182796	3733687	252685	1.7	18.194	3	0.5112	3.8	0.0675	2.3	0.61	420.9	9.4	419.2	12.9	409.8	66.7	-2.7
TEM 3	2267813	2024317	41970	3.12	18.178	3.3	0.4973	4.3	0.0656	2.7	0.641	409.6	10.9	409.9	14.4	411.7	73.5	0.5
TEM 30	2462200	2197833	124650	3.49	17.929	2.8	0.4842	6.2	0.063	5.6	0.898	393.7	21.4	400.9	20.7	442.4	61.2	11.0
TEM 4	1426194	1273063	145740	2.07	17.951	3.3	0.5075	4.4	0.0661	3	0.676	412.7	11.9	416.8	15.1	439.7	72.5	6.1
TEM 5	3378767	3015987	330791	2.87	18.437	2.9	0.4972	3.8	0.0665	2.5	0.653	415.1	9.9	409.8	12.8	379.9	64.6	-9.3
TEM 6	769797	687144	22302	3.38	18.359	4.9	0.4992	6.6	0.0665	4.3	0.657	415	17.3	411.1	22.2	389.5	110.9	-6.5
TEM 7	2021082	1804078	147241	1.84	18.315	3	0.5029	4.3	0.0668	3	0.716	417	12.3	413.6	14.4	394.8	66.6	-5.6
TEM 8	2221439	1982922	33874	2.58	18.388	2.7	0.5002	4	0.0667	2.9	0.728	416.5	11.8	411.8	13.6	385.9	61.7	-7.9
TEM 9	1886963	1684359	64312	1.93	18.12	3.4	0.5069	4.3	0.0667	2.7	0.622	415.9	10.9	416.4	14.8	418.8	76	0.7

TABLE S6: R33 LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition										Ages							
	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U (%)	2σ	206Pb/238U (%)	2σ	Error Corr.	206Pb/238U (Ma)	2σ	207Pb/235U (Ma)	2σ	206Pb/207Pb (Ma)	2σ	% Disc.
R33 no CA Run 1																		
R33-10	2118292.4	2423123	6686	1.64	17.950	3.1	0.5099	4.3	0.06641	3.0	0.693	414.5	11.9	418.4	14.6	439.9	68.3	5.8
R33-11	4836437.2	5532420	13907	1.47	18.333	2.0	0.4942	3.5	0.06574	2.8	0.816	410.5	11.3	407.8	11.7	392.7	45.2	-4.5
R33-12	888450.81	1016302	12207	1.61	17.336	6.1	0.5192	7.3	0.06531	4.0	0.547	407.8	15.7	424.6	25.2	516.8	133.4	21.1
R33-13	690944.85	790375	5544	2.02	17.046	6.6	0.5294	8.8	0.06548	5.7	0.655	408.9	22.7	431.4	30.8	553.7	144.3	26.2
R33-14	1000821.4	1144844	5476	1.73	17.498	5.3	0.5099	6.0	0.06474	2.8	0.463	404.4	10.8	418.4	20.5	496.4	116.8	18.5
R33-15	1927882.6	2205313	4403	1.08	18.132	4.8	0.5058	5.9	0.06655	3.4	0.570	415.3	13.5	415.6	20.1	417.3	107.9	0.5
R33-2	1510316.9	1727658	9048	1.67	19.038	4.1	0.4818	5.3	0.06655	3.3	0.627	415.3	13.3	399.3	17.4	307.3	93.6	-35.1
R33-3	5944714.4	6800183	16589	1.57	18.140	2.5	0.5029	4.3	0.06619	3.4	0.805	413.2	13.8	413.6	14.6	416.4	56.8	0.8
R33-4	1428696.8	1634292	5856	1.65	18.608	3.4	0.5175	4.6	0.06988	3.0	0.670	435.4	12.8	423.5	15.8	359.2	76.2	-21.2
R33-6	2462583.2	2816959	13597	1.56	18.723	3.2	0.5257	5.0	0.07141	3.9	0.779	444.6	16.9	428.9	17.6	345.3	71.6	-28.8
R33-7	15682935	17939772	161595	1.32	17.861	1.7	0.5198	2.8	0.06737	2.2	0.782	420.3	8.9	425.0	9.7	451.0	38.7	6.8
R33-8	1301140.9	1488380	10891	1.34	18.222	3.1	0.5098	4.7	0.06741	3.5	0.749	420.5	14.3	418.3	16.1	406.2	69.4	-3.5
R33-9	2361156.4	2700936	12352	1.57	18.364	3.0	0.5003	4.7	0.06666	3.5	0.760	416.0	14.3	411.9	15.8	388.8	68.2	-7.0
R33 no CA Run 1 (discordant)																		
R33-1	975696.38	1116103	34248	1.54	18.621	5.6	0.5081	15.7	0.06864	14.7	0.934	428.0	60.8	417.1	53.8	357.6	126.3	-19.7
R33 no CA Run 2																		
R33 1	3465645	3260555	742378	1.1	18.348	2.8	0.5049	3.7	0.06722	2.4	0.656	419.4	9.9	415	12.7	390.8	63.1	-7.3
R33 10	2638856	2482694	86117	0.85	18.252	2.6	0.5206	4.2	0.06895	3.3	0.79	429.8	13.7	425.6	14.5	402.6	57.2	-6.8
R33 11	842104	792270	56454	1.5	17.775	3.7	0.5122	5.3	0.06606	3.8	0.717	412.4	15.1	419.9	18.1	461.5	81.2	10.6
R33 12	1719318	1617572	28252	1.38	18.416	3.7	0.5006	4.4	0.06689	2.4	0.545	417.4	9.7	412.1	14.9	382.5	82.9	-9.1
R33 13	2757105	2593945	238324	1.66	18.118	2.8	0.5187	3.7	0.06819	2.5	0.667	425.2	10.2	424.3	12.9	419.1	62	-1.5
R33 14	1801619	1695003	155027	1.36	18.83	2.9	0.5037	4.2	0.06882	3	0.714	429	12.4	414.2	14.2	332.3	66.5	-29.1
R33 15	1375138	1293760	22168	1.38	18.207	3.2	0.5144	4.5	0.06796	3.2	0.712	423.9	13.2	421.4	15.7	408.1	71.3	-3.9
R33 16	1367286	1286373	22031	0.87	17.015	4.8	0.5637	6.5	0.06959	4.3	0.662	433.7	17.9	453.9	23.6	557.7	105.6	22.2
R33 17	2293224	2157515	73853	1.62	18.092	2.7	0.5173	3.4	0.06791	2	0.603	423.5	8.3	423.3	11.6	422.2	59.7	-0.3
R33 18	1183026	1113017	20741	1.36	18.266	3.5	0.4946	5	0.06555	3.6	0.721	409.3	14.3	408	16.8	400.8	77.4	-2.1
R33 19	1256715	1182345	154227	1.61	17.832	3.7	0.519	4.8	0.06716	3.1	0.645	419	12.6	424.5	16.6	454.5	81.4	7.8
R33 2	1795982	1689699	55363	2.63	18.383	2.8	0.4946	4.1	0.06597	3.1	0.738	411.8	12.2	408	13.9	386.5	62.8	-6.5
R33 20	1123833	1057327	1406710	1.89	17.879	2.9	0.5151	4.1	0.06683	3	0.721	417	12.1	421.9	14.3	448.6	63.8	7.0
R33 21	3376234	3176435	667189	1.1	18.052	2.6	0.5026	3.9	0.06583	2.9	0.747	411	11.7	413.4	13.4	427.2	58.3	3.8
R33 22	2507716	2359314	63222	1.07	18.223	2.7	0.5208	4.1	0.06886	3.1	0.754	429.3	13	425.7	14.4	406.2	61	-5.7
R33 23	1303213	1226091	32367	1.52	18.251	3.1	0.496	4.2	0.06569	2.9	0.68	410.1	11.4	409	14.2	402.7	69.1	-1.8
R33 24	1611094	1515753	1102756	1.42	18.325	2.9	0.5023	4.1	0.06679	3	0.723	416.8	12.1	413.2	14.1	393.6	64.2	-5.9
R33 25	5347924	5031444	938550	1.7	18.253	2.5	0.515	3.7	0.06821	2.7	0.739	425.3	11.1	421.8	12.6	402.4	55.2	-5.7
R33 26	5887843	5539412	301653	1.53	17.988	2.2	0.5105	3.5	0.06664	2.7	0.774	415.9	11.1	418.8	12.2	435.1	50	4.4
R33 27	7177655	6752895	262288	1.42	18.089	2.2	0.5301	3	0.06958	2.1	0.689	433.6	8.7	431.9	10.6	422.6	48.9	-2.6
R33 28	792250	745366	5000	1.62	19.02	9.3	0.4871	10	0.06722	3.8	0.382	419.4	15.6	402.9	33.3	309.5	210.9	-35.5
R33 29	3443076	3239321	50470	1.66	18.175	2.6	0.5107	3.8	0.06735	2.8	0.737	420.2	11.5	418.9	13.1	412.1	57.8	-2.0

R33 3	2349642	2210595	201198	1.11	18.212	2.8	0.5093	3.9	0.0673	2.6	0.681	419.9	10.7	418	13.3	407.5	63.5	-3.0
R33 30	638602	600811	5000	2.16	19.572	10.4	0.4689	11.4	0.06659	4.6	0.401	415.6	18.4	390.4	36.9	244	240.7	-70.3
R33 4	1549179	1457502	230033	1.59	18.2	3.3	0.5122	5	0.06764	3.7	0.741	422	15	419.9	17.1	408.9	74.5	-3.2
R33 5	3278992	3084948	47163	2.51	17.934	2.4	0.5082	3.8	0.06613	3	0.776	412.8	11.9	417.2	13.1	441.8	53.7	6.6
R33 6	926168	871359	67169	2.37	18.127	3.6	0.5048	4.7	0.06639	3.1	0.657	414.4	12.5	414.9	16.1	417.9	79.9	0.8
R33 7	2352020	2212832	157760	1.72	18.105	2.6	0.5053	4.1	0.06638	3.2	0.783	414.3	13	415.3	14.1	420.7	57.5	1.5
R33 8	2158090	2030378	174952	1.24	17.784	3	0.504	3.9	0.06503	2.5	0.643	406.2	9.8	414.4	13.2	460.5	65.9	11.8
R33 9	4158242	3912165	114345	0.95	18.333	2.3	0.509	3.5	0.06771	2.6	0.74	422.3	10.5	417.8	11.9	392.7	52.5	-7.5

Composition

Ages

Zircon	U	U (norm)	206Pb/	U/Th	206Pb/	2σ	207Pb/	2σ	206Pb/	2σ	Error	206Pb/	2σ	207Pb/	2σ	206Pb/	2σ	%
#	(238 cps)	(238 cps)	204Pb		207Pb	(%)	235U	(%)	238U	(%)	Corr.	238U	(Ma)	235U	(Ma)	207Pb	(Ma)	Disc.
R33 CA Run 1																		
R33-1	861433	1134316	8053	1.33	18.230	5.2	0.5105	6.5	0.06753	3.9	0.598	421.2	15.8	418.8	22.2	405.3	116.1	-3.9
R33-2	2193276	2888060	119350	1.58	17.777	3.8	0.5224	4.5	0.06739	2.5	0.544	420.4	10.0	426.8	15.7	461.4	83.8	8.9
R33-3	1004810	1323113	7029	1.26	18.836	5.0	0.4870	5.9	0.06656	3.1	0.526	415.4	12.4	402.9	19.5	331.6	113.3	-25.3
R33-5	896378	1180331	15002	1.44	18.436	3.4	0.5054	4.5	0.06761	3.0	0.657	421.7	12.2	415.4	15.5	380.1	76.8	-10.9
R33-6	2041635	2688381	6938	1.86	18.680	3.0	0.4979	4.0	0.06748	2.6	0.658	421.0	10.6	410.3	13.4	350.5	67.7	-20.1
R33-7	1209925	1593203	15063	1.24	18.652	2.7	0.4983	3.8	0.06744	2.7	0.705	420.7	11.0	410.6	12.9	353.8	61.3	-18.9
R33-8	6552394	8628054	36566	0.94	17.933	1.7	0.5052	4.0	0.06574	3.6	0.908	410.4	14.4	415.2	13.5	441.9	37.0	7.1
R33-9	930595	1225388	534136	2.06	17.459	7.8	0.5458	12.5	0.06914	9.7	0.777	431.0	40.4	442.2	44.7	501.2	172.8	14.0
R33-10	1775319	2337702	13328	2.59	18.585	2.6	0.4923	4.0	0.06638	3.0	0.749	414.3	12.0	406.4	13.4	362.0	59.6	-14.4
R33-11	478717	630365	6625	1.91	12.979	12.0	0.7197	15.7	0.06777	10.1	0.647	422.7	41.5	550.5	66.6	1121.6	238.6	62.3
R33-12	931024	1225953	5552	1.33	17.549	6.6	0.5338	7.6	0.06797	3.7	0.488	423.9	15.1	434.4	26.7	490.0	145.7	13.5
R33-14	919347	1210577	10606	1.27	18.387	3.6	0.4968	4.8	0.06628	3.1	0.658	413.7	12.6	409.5	16.1	386.1	80.6	-7.1
R33-13	995253	1310528	7356	1.32	19.053	3.8	0.4715	5.3	0.06518	3.7	0.701	407.0	14.7	392.2	17.3	305.6	86.5	-33.2
R33-15	3122164	4111199	117093	1.47	17.954	2.7	0.5189	4.3	0.06760	3.4	0.781	421.7	13.9	424.4	15.1	439.3	60.5	4.0
R33 CA Run 1 (discordant)																		
R33-4	1171872	1543096	4692	1.45	20.020	6.0	0.4849	16.6	0.07043	15.5	0.933	438.8	65.8	401.4	55.2	191.7	139.5	-128.9
R33 CA Run 2																		
R33 1	2774273	2476398	334247	0.98	18.358	2.9	0.5046	3.7	0.06721	2.2	0.596	419.3	8.9	414.8	12.5	389.6	66.2	-7.6
R33 10	1015333	906316	163116	2.23	18.14	3.9	0.5186	5	0.06826	3.1	0.618	425.7	12.7	424.2	17.3	416.4	87.6	-2.2
R33 11	1533174	1368556	70364	1.77	18.5	3	0.5047	4	0.06775	2.6	0.656	422.6	10.8	414.9	13.7	372.3	68.1	-13.5
R33 12	1158069	1033727	5000	1.92	19.316	9.2	0.4826	9.5	0.06764	2.3	0.239	421.9	9.3	399.8	31.3	274.2	211.1	-53.9
R33 13	1189638	1061906	30508	1.5	18.255	3.7	0.5217	4.3	0.06911	2.1	0.482	430.8	8.6	426.3	14.9	402.2	84	-7.1
R33 14	1657131	1479204	55799	1.24	18.075	3.1	0.5141	4.3	0.06742	2.9	0.675	420.6	11.7	421.2	14.7	424.4	70.3	0.9
R33 15	3228683	2882018	82024	0.91	18.107	2.6	0.5229	3.4	0.0687	2.2	0.639	428.3	8.9	427.1	11.8	420.5	58	-1.9
R33 16	897706	801319	143428	2.21	18.117	4.5	0.5144	5.1	0.06762	2.3	0.456	421.8	9.5	421.4	17.6	419.1	101.3	-0.6
R33 17	2207184	1970198	40305	1.02	18.284	2.6	0.5188	3.5	0.06883	2.4	0.674	429.1	9.8	424.4	12.1	398.7	57.7	-7.6
R33 18	2150675	1919756	144509	1.11	18.242	2.8	0.509	4.3	0.06737	3.2	0.756	420.3	13.1	417.7	14.6	403.8	62.4	-4.1
R33 19	1643554	1467085	236345	1.41	18.368	2.4	0.5138	3.1	0.06848	1.9	0.617	427	7.9	421	10.6	388.3	54.5	-10.0
R33 2	806032	719488	75251	1.71	18.2	4.2	0.5171	5.5	0.06829	3.5	0.636	425.8	14.3	423.2	18.9	409	94.2	-4.1
R33 20	646775	577331	21868	1.65	18.348	4.7	0.5099	5.9	0.06789	3.6	0.604	423.4	14.6	418.4	20.2	390.8	105.5	-8.3
R33 21	1140204	1017780	100004	1.81	17.994	4.1	0.5157	5	0.06733	2.9	0.572	420	11.7	422.2	17.3	434.4	91.7	3.3

R33 22	2037623	1818843	705886	1.42	18.037	2.9	0.5217	4	0.06828	2.8	0.685	425.8	11.4	426.3	14.1	429	65.6	0.7
R33 23	1621837	1447700	22594	1.26	18.414	3.7	0.5097	4.8	0.06809	3.1	0.648	424.7	12.8	418.2	16.5	382.8	82.3	-10.9
R33 24	990892	884500	33205	1.71	18.595	4	0.5014	4.9	0.06765	2.9	0.595	422	12	412.6	16.7	360.7	89.4	-17.0
R33 25	2506436	2237319	53527	1.28	18.34	2.8	0.5116	3.5	0.06808	2.1	0.59	424.6	8.5	419.5	12.1	391.7	63.6	-8.4
R33 26	2452063	2188784	75011	1.3	18.1	2.7	0.522	4	0.06855	2.9	0.741	427.4	12.1	426.5	13.8	421.3	59.2	-1.4
R33 27	1653807	1476237	44741	1.41	18.344	1.9	0.5064	3.3	0.0674	2.7	0.825	420.5	11.2	416	11.4	391.3	42.2	-7.5
R33 28	3526238	3147624	210788	1.55	18.364	2	0.5167	3.3	0.06886	2.6	0.802	429.3	11	423	11.4	388.8	44.2	-10.4
R33 29	4645988	4147146	160008	1.58	18.056	2.5	0.5132	3.6	0.06724	2.6	0.726	419.5	10.6	420.6	12.4	426.7	55.2	1.7
R33 3	1692433	1510716	43002	1.81	18.104	3	0.5188	4.6	0.06815	3.5	0.761	425	14.4	424.4	15.9	420.8	66.5	-1.0
R33 30	1292666	1153872	73164	1.23	18.544	2.4	0.5116	4.1	0.06883	3.4	0.817	429.1	14	419.5	14.1	367	53.4	-16.9
R33 4	4784944	4271183	298711	1.71	17.93	2.4	0.5172	3.4	0.06729	2.4	0.71	419.8	9.7	423.3	11.7	442.3	52.7	5.1
R33 5	651494	581543	56058	1.58	17.818	4.5	0.5224	5.9	0.06754	3.8	0.652	421.3	15.6	426.7	20.5	456.2	99.1	7.7
R33 7	2474556	2208862	1141650	1.68	18.27	3	0.5156	3.8	0.06836	2.4	0.63	426.3	9.9	422.2	13.1	400.3	66.1	-6.5
R33 8	1109806	990646	45687	1.3	18.238	3.6	0.5107	4.7	0.06758	3	0.641	421.6	12.2	418.9	16	404.3	80	-4.3
R33 9	4527634	4041500	289811	1.7	18	1.9	0.5136	3.2	0.06707	2.6	0.818	418.5	10.7	420.8	11.1	433.7	41.2	3.5

R33 CA Run 2 (discordant)

R33 6	1085882	969290	375529	2.12	6.231	1.8	10.048	3.8	0.45425	3.3	0.88	2414.1	67.2	2439	35	2460	30.4	1.9
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TABLE S7: SLM LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition										Ages							
	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U (%)	2σ	206Pb/238U (%)	2σ	Error Corr.	206Pb/238U (Ma)	2σ	207Pb/235U (Ma)	2σ	206Pb/207Pb (Ma)	2σ	% Disc.
SLM no CA Run 1																		
SLM-1	1812595	2073434	13334	6.00	16.587	3.3	0.7247	4.8	0.08722	3.5	0.729	539.1	18.0	553.5	20.4	613.0	70.6	12.1
SLM-10	3826390	4377023	32288	3.45	17.286	1.6	0.7157	3.0	0.08976	2.6	0.859	554.1	13.9	548.1	12.9	523.2	34.2	-5.9
SLM-11	3255875	3724408	58062	6.51	16.976	1.6	0.7163	3.3	0.08824	2.9	0.870	545.1	15.0	548.5	13.9	562.7	35.3	3.1
SLM-12	1651680	1889363	14747	6.28	17.134	2.6	0.7671	3.6	0.09536	2.5	0.682	587.2	13.8	578.1	15.9	542.5	57.5	-8.2
SLM-13	3074887	3517375	31095	4.26	17.005	2.2	0.7380	4.2	0.09105	3.6	0.846	561.8	19.2	561.2	18.2	559.0	48.9	-0.5
SLM-14	1547649	1770362	72348	5.34	16.801	2.3	0.7644	4.1	0.09319	3.4	0.828	574.4	18.9	576.5	18.3	585.2	50.4	1.9
SLM-15	3032481	3468868	24512	6.31	17.106	2.0	0.7155	3.3	0.08880	2.7	0.807	548.5	14.0	548.0	14.0	546.1	42.7	-0.4
SLM-2	1150904	1316524	18639	7.18	17.029	2.8	0.7519	4.5	0.09291	3.4	0.769	572.7	18.8	569.3	19.4	555.9	62.1	-3.0
SLM-3	1799345	2058278	4613	6.20	16.519	3.1	0.7381	4.1	0.08847	2.8	0.666	546.5	14.4	561.3	17.9	621.9	66.7	12.1
SLM-4	5058020	5785890	81163	5.13	17.106	1.4	0.7370	3.0	0.09147	2.6	0.882	564.2	14.2	560.6	12.8	546.1	30.6	-3.3
SLM-5	6798007	7776267	56723	5.37	17.221	1.8	0.7204	3.5	0.09002	3.0	0.850	555.7	15.8	550.9	14.9	531.4	40.4	-4.6
SLM-6	3439342	3934277	207689	6.68	16.852	2.7	0.7197	4.8	0.08801	3.9	0.819	543.7	20.4	550.5	20.3	578.6	59.4	6.0
SLM-7	1642686	1879075	10636	6.23	16.646	3.9	0.7204	5.3	0.08701	3.6	0.677	537.8	18.6	550.9	22.7	605.3	84.8	11.1
SLM-9	3735277	4272799	65139	5.98	17.036	1.6	0.7124	2.8	0.08806	2.3	0.820	544.1	11.9	546.2	11.8	555.0	34.8	2.0
SLM no CA Run 1 (discordant)																		
SLM-8	4207205	4812639	27718	5.69	18.208	4.3	0.7038	20.2	0.09298	19.7	0.977	573.1	108.2	541.0	84.8	408.0	96.5	-40.5
SLM no CA Run 2																		
SLM 1	4276988	4023884	82685	3.89	16.967	2.4	0.7261	3.2	0.08939	2	0.647	551.9	10.8	554.3	13.5	563.9	52.5	2.1
SLM 10	4109318	3866136	105401	4.03	17.014	2.6	0.7293	3.5	0.09004	2.4	0.673	555.8	12.5	556.2	15	557.9	56.4	0.4
SLM 11	2192934	2063160	73916	6.51	17.083	2.8	0.7176	3.6	0.08895	2.3	0.64	549.3	12.3	549.2	15.4	548.9	61	-0.1
SLM 12	4005467	3768431	344129	6.86	17.128	2.1	0.7248	3.5	0.09007	2.7	0.788	556	14.6	553.5	14.9	543.3	46.9	-2.3
SLM 13	6227156	5858645	253077	5.58	16.912	2.2	0.7249	3.2	0.08896	2.4	0.74	549.4	12.5	553.6	13.7	570.9	46.9	3.8
SLM 14	3789464	3565211	301471	6.96	17.202	2.3	0.7062	3.6	0.08814	2.8	0.782	544.5	14.8	542.5	15.2	533.9	49.4	-2.0
SLM 15	4104549	3861650	118662	4.03	17.133	2.5	0.734	4.2	0.09125	3.3	0.796	563	17.9	558.9	17.9	542.5	55.3	-3.8
SLM 16	2105162	1980583	52805	7.15	17.255	2.9	0.6972	3.7	0.08729	2.4	0.641	539.5	12.4	537.1	15.6	527.1	63.1	-2.4
SLM 17	7869435	7403737	424775	5.53	17.054	2	0.7378	3.1	0.0913	2.4	0.777	563.2	13	561.1	13.4	552.6	42.6	-1.9
SLM 18	3849962	3622129	101331	6.81	16.978	2.2	0.7228	4	0.08904	3.3	0.837	549.9	17.6	552.3	17	562.4	47.7	2.2
SLM 19	1990377	1872590	65655	6.69	17.117	2.4	0.7113	3.9	0.08834	3.1	0.787	545.7	16	545.5	16.4	544.6	52.4	-0.2
SLM 2	6354776	5978713	331675	5.71	17.122	1.6	0.7222	3	0.08973	2.5	0.834	553.9	13.1	552	12.6	544	35.8	-1.8
SLM 20	4043907	3804596	639867	3.93	16.974	2.2	0.7424	3.2	0.09143	2.4	0.742	564	13	563.8	14	562.9	47.3	-0.2
SLM 21	4928632	4636965	80490	6.12	17.279	2	0.704	3.6	0.08826	3	0.83	545.2	15.5	541.2	15	524	43.6	-4.0
SLM 22	1465841	1379095	88185	6.64	16.881	2.7	0.7405	4.3	0.0907	3.3	0.772	559.7	17.7	562.7	18.5	574.9	59.2	2.6
SLM 23	4906115	4615781	646582	6.12	17.382	2.1	0.7025	3.3	0.0886	2.6	0.782	547.2	13.7	540.3	14	511	45.7	-7.1
SLM 24	1409143	1325753	103566	6.38	17.001	3.1	0.7456	4.5	0.09198	3.3	0.733	567.2	17.8	565.7	19.5	559.4	66.5	-1.4
SLM 25	4004008	3767058	150869	7.02	16.982	2.1	0.7125	3.4	0.0878	2.6	0.779	542.5	13.7	546.2	14.3	561.8	46.4	3.4
SLM 26	2252532	2119231	338877	6.52	17.091	2.9	0.7274	5.5	0.0902	4.7	0.85	556.7	24.9	555	23.5	548	63.3	-1.6
SLM 27	4123544	3879521	163579	3.81	16.829	2	0.7392	3.2	0.09026	2.5	0.783	557.1	13.4	561.9	13.8	581.6	43.2	4.2
SLM 28	4208277	3959239	10806294	3.91	16.908	2.1	0.7429	3.4	0.09115	2.6	0.779	562.3	14.1	564.1	14.5	571.4	45.7	1.6

SLM 29	6372822	5995691	13233870	5.68	16.896	2.3	0.7366	3.6	0.09031	2.7	0.76	557.4	14.4	560.4	15.3	572.9	50.2	2.7
SLM 3	6575696	6186559	141347	5.57	17.086	2.2	0.7244	3.2	0.08981	2.3	0.719	554.4	12.3	553.3	13.8	548.6	49	-1.1
SLM 30	5340454	5024416	128673	5.71	17.067	2.2	0.7319	3.8	0.09064	3.1	0.816	559.3	16.6	557.7	16.3	551.1	47.9	-1.5
SLM 4	6378252	6000799	293124	5.97	17.088	2.5	0.7224	3.5	0.08957	2.4	0.687	553	12.6	552.1	14.7	548.4	54.9	-0.8
SLM 5	3684504	3466462	268686	4.64	17.104	1.8	0.7194	3	0.08928	2.4	0.795	551.3	12.4	550.3	12.6	546.2	39.2	-0.9
SLM 6	4467813	4203416	133547	3.8	17.069	2.6	0.726	3.5	0.08991	2.3	0.656	555	12.2	554.2	15	550.8	57.7	-0.8
SLM 7	3987096	3751147	258430	4.17	17.249	2.2	0.7224	3.1	0.09042	2.2	0.703	558	11.7	552.1	13.3	527.8	48.7	-5.7
SLM 8	2293087	2157387	481965	6.76	17.08	3.3	0.7347	4.4	0.09105	2.9	0.657	561.8	15.4	559.3	18.8	549.4	71.8	-2.3
SLM 9	6580359	6190946	253778	5.71	16.865	2	0.7264	3.3	0.08889	2.5	0.781	549	13.4	554.4	13.9	576.9	44.1	4.8

Composition

Ages

Zircon #	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U (%)	2σ	206Pb/238U (%)	2σ	Error Corr.	206Pb/238U (Ma)	2σ	207Pb/235U (Ma)	2σ	206Pb/207Pb (Ma)	2σ	% Disc.
SLM CA Run 1																		
SLM-1	5374175	7076599	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	4703888	6193980	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	4951877	6520527	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	1054487	1388526	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	5096681	6711202	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	4693200	6179906	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	5105173	6722384	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	3613852	4758643	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	1927352	2537896	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	5147884	6778625	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	5260145	6926448	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	4806636	6329277	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	4512961	5942572	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	4821385	6348698	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	4979356	6556711	45967	5.43	16.628	2.1	0.7487	2.7	0.09034	1.8	0.663	557.5	9.7	567.5	11.9	607.6	44.4	8.2
SLM CA Run 2																		
SLM 1	7761889	6928492	1283677	5.08	16.946	2.3	0.7366	3.2	0.09057	2.2	0.693	558.9	11.9	560.4	13.8	566.5	50.3	1.3
SLM 10	5468116	4881002	214351	5.04	16.955	1.9	0.7422	3.2	0.0913	2.6	0.809	563.2	14	563.7	13.9	565.4	41.2	0.4
SLM 11	1532109	1367606	152546	4.57	17.099	2.4	0.7428	3.6	0.09216	2.8	0.76	568.3	15	564	15.7	546.9	51.4	-3.9
SLM 12	6894190	6153958	223931	4.76	16.928	2	0.7359	3.3	0.09039	2.6	0.789	557.8	13.7	560	14	568.8	43.6	1.9
SLM 13	7604516	6788016	224287	5.32	16.903	2.3	0.724	3.2	0.08879	2.2	0.702	548.4	11.7	553	13.5	572	49	4.1
SLM 14	3539615	3159565	107821	5.26	17.316	2.2	0.7138	3	0.08968	2	0.681	553.7	10.8	547	12.6	519.3	47.9	-6.6
SLM 15	2941059	2625276	99654	5.72	17.251	1.9	0.7278	3	0.0911	2.3	0.763	562	12.2	555.3	12.7	527.6	41.9	-6.5
SLM 16	2779888	2481410	234603	5.92	17.117	3	0.7373	4.1	0.09157	2.8	0.682	564.8	15.2	560.8	17.8	544.6	65.8	-3.7
SLM 17	7723835	6894524	2290943	5.31	17.047	2.3	0.7312	3.3	0.09044	2.4	0.722	558.2	12.6	557.3	14	553.6	49.2	-0.8
SLM 18	7892006	7044638	867172	5.17	16.884	2.1	0.7354	3.5	0.0901	2.8	0.804	556.1	15.2	559.7	15.2	574.4	45.8	3.2
SLM 19	6854131	6118200	472445	4.84	17.002	1.8	0.7333	3.1	0.09046	2.5	0.803	558.3	13.2	558.5	13.2	559.4	39.8	0.2
SLM 2	7104933	6342073	308248	5.4	17.018	1.8	0.7313	3	0.09031	2.3	0.786	557.4	12.5	557.3	12.8	557.3	40.1	0.0
SLM 20	1566991	1398743	172597	4.44	17.028	2.7	0.7589	3.6	0.09376	2.3	0.642	577.8	12.6	573.4	15.6	556	59.5	-3.9
SLM 21	5432413	4849133	2358637	4.98	17.06	1.9	0.7408	2.7	0.0917	2	0.721	565.6	10.7	562.9	11.8	551.9	41.4	-2.5

SLM 22	8157057	7281230	430158	5.05	16.804	1.7	0.744	3.2	0.09071	2.7	0.843	559.7	14.3	564.7	13.7	584.9	36.8	4.3
SLM 23	7482060	6678708	2709499	5.23	17.082	2	0.7331	3.2	0.09086	2.5	0.783	560.6	13.4	558.4	13.7	549.1	43.3	-2.1
SLM 24	7706033	6878633	325083	4.78	16.837	1.7	0.7406	2.8	0.09048	2.2	0.792	558.4	11.9	562.7	12.2	580.5	37.3	3.8
SLM 25	6997553	6246223	286485	5.26	17.051	2.3	0.7335	3	0.09075	2	0.658	559.9	10.7	558.6	13	553.1	49.6	-1.2
SLM 26	7456304	6655718	116626	5.15	16.911	1.8	0.7379	4.7	0.09055	4.3	0.919	558.8	23.1	561.2	20.2	571	40.3	2.1
SLM 27	6923383	6180017	544134	4.8	17.05	1.6	0.7414	2.2	0.09172	1.5	0.699	565.7	8.3	563.2	9.5	553.2	34.4	-2.3
SLM 28	6801848	6071531	485514	4.9	17.021	1.8	0.7363	2.8	0.09093	2.2	0.762	561	11.6	560.2	12.2	556.9	40.2	-0.7
SLM 29	7619968	6801809	3953546	5.04	17.07	1.7	0.7343	2.5	0.09095	1.9	0.738	561.1	10	559	10.9	550.6	37.2	-1.9
SLM 3	7909508	7060261	1298526	5.2	17.001	2	0.7374	2.8	0.09097	2.1	0.726	561.3	11.1	560.9	12.3	559.5	42.7	-0.3
SLM 30	7303260	6519106	606987	5.33	16.906	1.9	0.7388	2.6	0.09063	1.8	0.7	559.2	9.8	561.7	11.3	571.6	40.6	2.2
SLM 4	7017993	6264468	5647563	4.86	16.789	1.4	0.7405	2.4	0.0902	1.9	0.802	556.7	10.2	562.7	10.3	586.8	30.8	5.1
SLM 5	7240742	6463301	280175	5.16	16.91	1.5	0.7359	2.3	0.0903	1.7	0.731	557.3	8.9	560	9.8	571.2	33.7	2.4
SLM 6	7160682	6391837	262113	5.23	16.745	2	0.7401	3.1	0.08992	2.4	0.762	555.1	12.7	562.5	13.5	592.4	44	6.3
SLM 7	7961878	7107008	372548	4.77	17.054	2	0.7251	3	0.08972	2.3	0.757	553.9	12	553.6	12.8	552.7	42.6	-0.2
SLM 8	7503922	6698223	315856	5.32	16.995	1.8	0.7288	2.6	0.08987	1.9	0.716	554.8	10	555.8	11.2	560.2	39.9	1.0
SLM 9	6843489	6108701	3196578	5.43	16.997	1.8	0.7312	2.8	0.09018	2.1	0.763	556.6	11.3	557.3	11.9	560	39.2	0.6

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

Zircon #	Composition										Ages							
	U (238 cps)	U (norm) (238 cps)	206Pb/ 204Pb	U/Th	206Pb/ 207Pb	2 σ (%)	207Pb/ 235U	2 σ (%)	206Pb/ 238U	2 σ (%)	Error Corr.	206Pb/ 238U	2 σ (Ma)	207Pb/ 235U	2 σ (Ma)	206Pb/ 207Pb	2 σ (Ma)	% Disc.
SLF no CA Run 1																		
SLF-1	5359269	6130489	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	5809978	6646057	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	4310405	4930690	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	5423737	6204234	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	5817218	6654339	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	5801692	6636578	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	5759601	6588431	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	6388900	7308289	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	6565743	7510580	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	6311084	7219274	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	3913830	4477046	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	6186463	7076720	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	6741229	7711319	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	5988449	6850211	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	5440910	6223879	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	7640281	7188144	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	7300296	6868279	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	7242980	6814354	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	7106555	6686003	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	6737513	6338800	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	6820059	6416461	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	6858516	6452642	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	5643898	5309903	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	6675620	6280570	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	6884020	6476637	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	7029029	6613065	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	6295422	5922871	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	7294662	6862978	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	7062546	6644598	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	6802013	6399483	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	6684229	6288669	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	7244526	6815809	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	6329092	5954548	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	6860073	6454107	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	6844589	6439539	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	7529542	7083958	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	7496805	7053158	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	7167057	6742924	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	6985008	6571649	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	7322221	6888906	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	8189723	7705071	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	6273695	5902430	1.6E+07	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	7052134	6634802	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	5720609	5382074	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	7593195	7143844	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 (238 cps)	U (norm) (238 cps)	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																		
SLF-1	5279678	6952168	48830	5.36	16.579	1.2	0.7522	1.9	0.0905	1.4	0.742	558.4	7.4	569.5	8.1	614.0	26.9	9.1
SLF-10	5222907	6877414	35189	5.77	16.978	1.0	0.7134	1.7	0.0879	1.4	0.813	543.0	7.1	546.7	7.1	562.5	21.4	3.5
SLF-11	4529281	5964061	35524	5.36	17.000	1.0	0.7463	1.8	0.0921	1.5	0.823	567.7	8.2	566.1	7.9	559.6	22.6	-1.4
SLF-12	4837660	6370129	30648	5.67	16.975	1.1	0.7273	1.7	0.0896	1.4	0.778	553.1	7.2	555.0	7.5	562.8	23.9	1.7
SLF-13	4599438	6056443	42220	5.08	16.719	1.0	0.7519	2.0	0.0912	1.7	0.854	562.7	9.2	569.3	8.7	595.8	22.5	5.6
SLF-14	5058159	6660477	83661	5.47	16.875	0.9	0.7334	1.6	0.0898	1.4	0.850	554.4	7.4	558.6	7.1	575.6	18.9	3.7
SLF-15	4722173	6218058	45299	5.44	17.007	1.2	0.7351	1.9	0.0907	1.6	0.803	559.7	8.4	559.5	8.4	558.7	25.3	-0.2
SLF-2	4647635	6119907	50944	5.39	16.862	0.9	0.7426	1.7	0.0909	1.4	0.843	560.6	7.6	563.9	7.2	577.4	19.6	2.9
SLF-3	5045288	6643528	110051	5.58	16.739	0.9	0.7501	1.6	0.0911	1.4	0.849	562.0	7.5	568.3	7.2	593.2	18.8	5.3
SLF-4	5027861	6620581	47230	5.69	16.874	0.9	0.7407	1.7	0.0907	1.4	0.838	559.6	7.4	562.8	7.1	575.7	19.6	2.8
SLF-5	5239543	6899319	24629	5.36	17.089	1.1	0.7302	1.8	0.0905	1.5	0.800	558.8	7.8	556.7	7.8	548.2	23.7	-1.9
SLF-6	4765886	6275617	132812	5.58	17.191	1.1	0.7428	1.7	0.0927	1.4	0.791	571.2	7.4	564.1	7.4	535.2	23.1	-6.7
SLF-7	3821501	5032072	28238	5.78	16.813	1.1	0.7348	1.9	0.0896	1.6	0.829	553.4	8.3	559.4	8.1	583.6	22.8	5.2
SLF-8	4845533	6380495	25688	5.64	17.328	1.1	0.7261	1.9	0.0913	1.6	0.833	563.2	8.6	554.3	8.2	517.8	23.3	-8.8
SLF-9	4756357	6263071	32569	5.40	16.918	0.9	0.7487	1.5	0.0919	1.2	0.823	566.8	6.7	567.4	6.6	570.2	18.7	0.6
SLF CA Run 2																		
SLF 1	7149600	6381945	212354	5.14	16.99	1.5	0.7503	2.5	0.09249	1.9	0.783	570.3	10.6	568.4	10.8	560.9	33.5	-1.7
SLF 10	7186262	6414670	1.8E+07	5.36	16.987	2.2	0.7267	3.2	0.08957	2.4	0.735	553	12.5	554.6	13.8	561.2	47.6	1.5
SLF 11	7257347	6478123	319009	5.16	16.889	2.2	0.7401	3.3	0.0907	2.4	0.733	559.7	12.9	562.5	14.2	573.8	48.7	2.5
SLF 12	7365503	6574666	179903	5.16	16.946	2.3	0.733	3	0.09013	2	0.669	556.3	10.9	558.3	13.1	566.5	49.3	1.8
SLF 13	6660270	5945154	298586	4.91	16.988	2	0.7356	3.2	0.09068	2.5	0.768	559.5	13.2	559.8	13.8	561.1	44.6	0.3
SLF 14	7606370	6789671	215508	5.24	17.018	2.3	0.7306	3.1	0.09022	2	0.664	556.8	10.9	556.9	13.2	557.3	50.1	0.1
SLF 15	7968478	7112899	170455	5.14	16.858	1.8	0.7331	2.7	0.08967	2.1	0.749	553.6	10.9	558.4	11.8	577.8	39.5	4.2
SLF 16	6666829	5951009	676963	5.13	17.026	1.8	0.7295	2.5	0.09012	1.8	0.711	556.2	9.5	556.2	10.7	556.3	38.2	0.0
SLF 17	7036614	6281090	332443	5.27	16.928	1.5	0.7272	2.6	0.08932	2.1	0.808	551.5	10.9	554.9	10.9	568.9	32.9	3.1
SLF 18	7177464	6406817	382381	5.26	16.979	1.8	0.7338	2.6	0.09041	1.8	0.704	558	9.7	558.8	11.1	562.2	39.9	0.7
SLF 19	7167911	6398289	806568	5.27	17.143	1.9	0.7313	2.9	0.09097	2.2	0.756	561.3	11.8	557.3	12.5	541.3	41.7	-3.7
SLF 2	7706431	6878988	436882	5.25	17.142	1.9	0.7349	3.1	0.09141	2.4	0.79	563.9	13.1	559.4	13.2	541.4	41.3	-4.2
SLF 20	6643418	5930111	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	7136741	6370466	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	8037616	7174614	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	7014816	6261632	1.7E+07	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	7084075	6323455	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	7117197	6353021	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	7203872	6430389	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	7121667	6357011	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	7657951	6835714	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	5678379	5068689	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	7134735	6368676	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	7110174	6346752	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	7240788	6463342	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	7059792	6301779	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	5694539	5083114	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	7653041	6831331	1.9E+07	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	6835206	6101307	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	7228036	6451959	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

TABLE S9: 91500 LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition									Ages								
	U	U (norm)	206Pb/	U/Th	206Pb/	2σ	207Pb/	2σ	Error	206Pb/	2σ	207Pb/	2σ	206Pb/	2σ	%		
	(238 cps)	(238 cps)	204Pb		207Pb	(%)	235U	(%)	238U	(%)	Corr.	238U	(Ma)	235U	(Ma)	207Pb	(Ma)	Disc.
91500 no CA Run 1																		
91500-1	634053.3	725296	11484	2.85	13.430	26.9	1.828	4.0	0.17811	3.0	0.756	1056.6	29.7	1055.5	26.5	1053.1	53.2	-0.3
91500-2	652610.4	746524	14269	2.83	13.400	26.8	1.857	3.9	0.18055	2.8	0.719	1070.0	27.4	1065.9	25.5	1057.6	54.0	-1.2
91500-3	553709.7	633391	14357	2.87	13.542	27.1	1.811	3.8	0.17793	2.9	0.763	1055.6	27.9	1049.3	24.6	1036.3	49.0	-1.9
91500-5	670517.9	767008	14029	2.82	13.374	26.7	1.836	3.9	0.17812	2.9	0.752	1056.7	28.2	1058.3	25.3	1061.5	51.1	0.5
91500-6	677612	775123	7620	2.91	13.393	26.8	1.796	4.7	0.17451	3.5	0.758	1036.9	34.0	1043.9	30.5	1058.7	61.3	2.1
91500-8	580827.7	664411	76895	2.99	13.564	27.1	1.810	6.9	0.17810	5.2	0.749	1056.6	50.5	1049.0	45.2	1033.1	92.5	-2.3
91500-9	587030.9	671507	5890	2.81	13.682	27.4	1.755	3.2	0.17427	2.7	0.860	1035.6	26.1	1029.2	20.5	1015.5	32.7	-2.0
91500-10	661089	756222	6004	2.92	13.085	26.2	1.834	6.8	0.17416	3.5	0.518	1035.0	33.7	1057.8	44.7	1105.3	116.3	6.4
91500-11	596656.5	682518	9787	2.87	13.730	27.5	1.778	4.6	0.17715	3.6	0.778	1051.4	35.0	1037.5	30.2	1008.4	59.1	-4.3
91500-12	619610.2	708775	22374	3.02	13.585	27.2	1.772	4.5	0.17469	3.1	0.690	1037.9	29.8	1035.3	29.2	1029.9	65.9	-0.8
91500-13	509094.8	582356	4784	2.92	13.689	27.4	1.784	4.7	0.17722	3.1	0.660	1051.7	30.1	1039.7	30.6	1014.5	71.6	-3.7
91500-14	629584.9	720185	6618	2.90	13.740	27.5	1.754	5.6	0.17491	3.8	0.683	1039.1	36.6	1028.8	36.1	1006.9	82.7	-3.2
91500-15	635554.7	727014	10448	3.01	13.706	27.4	1.775	6.7	0.17651	5.3	0.790	1047.9	51.5	1036.3	43.7	1012.0	83.6	-3.6
91500 no CA Run 1 (discordant)																		
91500-4	629502.8	720091	5414	2.90	13.859	27.7	1.747	6.2	0.17564	3.5	0.567	1043.1	33.7	1025.9	39.8	989.5	103.3	-5.4
91500-7	684178.3	782634	8783	2.71	13.964	27.9	1.743	2.9	0.17662	2.2	0.737	1048.5	21.0	1024.6	19.0	974.1	40.6	-7.6
91500 no CA Run 2																		
91500 10	700145	658711.76	432045	2.99	13.341	2.9	1.857	4.9	0.17976	3.9	0.804	1065.7	38.8	1065.9	32.4	1066.4	58.7	0.1
91500 11	536345	504605.13	63264	3.16	13.456	3.3	1.847	5.1	0.18028	3.9	0.762	1068.5	38	1062.2	33.4	1049.2	66.2	-1.8
91500 12	616229	579761.75	285731	3.25	13.262	3	1.851	4.8	0.17811	3.8	0.788	1056.7	37	1063.8	31.8	1078.4	59.5	2.0
91500 13	887986	835436.69	54142	2.94	13.398	2.8	1.846	4.1	0.17948	3.1	0.742	1064.1	30.2	1062.1	27.3	1058	56	-0.6
91500 14	755401	710697.82	114360	2.94	13.617	3.1	1.775	6.2	0.17539	5.3	0.861	1041.7	51.4	1036.4	40.3	1025.2	63.7	-1.6
91500 15	836198	786713.41	213814	2.91	13.368	2.8	1.839	3.5	0.17841	2.2	0.628	1058.3	21.7	1059.7	23.3	1062.4	55.4	0.4
91500 16	732541	689190.63	81913	3.12	13.389	2.5	1.811	3.8	0.17594	2.8	0.735	1044.7	26.6	1049.4	24.5	1059.3	51.2	1.4
91500 17	738883	695157.32	31127	3.04	13.542	2.5	1.794	4	0.17631	3.2	0.789	1046.8	30.8	1043.4	26.4	1036.3	50.3	-1.0
91500 18	727407	684360.45	366302	2.92	13.404	2.3	1.867	4.5	0.1816	3.9	0.862	1075.7	38.8	1069.6	30.1	1057	46.4	-1.8
91500 19	744519	700459.8	46412	3.03	13.522	3.4	1.815	5	0.1781	3.6	0.731	1056.6	35.4	1051	32.5	1039.3	68.5	-1.7
91500 2	846340	796255.22	69741	2.96	13.582	3.2	1.813	4.2	0.17864	2.7	0.646	1059.6	26.6	1050.1	27.5	1030.3	64.9	-2.8
91500 20	668804	629225.46	100000	2.97	13.479	3.8	1.892	5.5	0.18501	4	0.723	1094.3	39.9	1078.2	36.4	1045.7	76.5	-4.6
91500 21	720577	677934.64	144706	3.05	13.611	2.3	1.778	4.4	0.1756	3.7	0.846	1042.9	35.9	1037.5	28.6	1026	47.5	-1.6
91500 22	738851	695127.22	495552	2.98	13.359	2.8	1.838	5.2	0.17815	4.4	0.839	1056.8	42.5	1059.1	34.2	1063.7	57	0.6
91500 23	584518	549927.35	52834	3.13	13.442	2.9	1.834	4.8	0.17889	3.8	0.798	1060.9	37.2	1057.7	31.4	1051.2	58	-0.9
91500 24	584176	549605.59	175805	3.27	13.567	3.1	1.808	5.5	0.17793	4.6	0.83	1055.7	44.6	1048.2	36.1	1032.6	62.2	-2.2
91500 25	813305	765175.17	64128	2.86	13.521	2.1	1.827	3	0.17926	2.2	0.736	1062.9	22	1055.3	20	1039.5	41.7	-2.3
91500 26	882655	830421.17	312938	2.86	13.522	2.2	1.825	4.8	0.1791	4.2	0.883	1062	41.2	1054.6	31.2	1039.3	45.2	-2.2
91500 27	568807	535146.09	29356	3.07	13.696	3.7	1.802	6	0.17904	4.8	0.787	1061.7	46.5	1046	39.4	1013.4	75.4	-4.8
91500 28	651213	612675.47	157634	3.02	13.548	2.4	1.805	4.1	0.17742	3.3	0.81	1052.9	31.9	1047.2	26.5	1035.4	48.1	-1.7
91500 29	687162	646497.07	81428	3	13.574	2.7	1.8	4.2	0.17728	3.2	0.774	1052.1	31.5	1045.4	27.4	1031.6	53.8	-2.0

91500 3	592656	557583.76	110996	3.18	13.538	3.2	1.8	4.7	0.17684	3.4	0.724	1049.7	33	1045.6	30.7	1036.9	65.6	-1.2
91500 30	587368	552608.69	111474	3.2	13.1	2.4	1.832	4.6	0.17418	3.9	0.85	1035.1	37.6	1057.1	30.4	1103	48.7	6.2
91500 4	992444	933713.07	36613	2.95	13.445	2.3	1.772	3.7	0.1729	2.9	0.793	1028.1	27.9	1035.4	24	1050.9	45.5	2.2
91500 5	581232	546835.81	76415	3.33	13.542	2.2	1.8	4	0.17684	3.4	0.841	1049.7	32.5	1045.3	26.1	1036.2	43.8	-1.3
91500 6	608523	572511.78	26391	3.26	13.545	2.7	1.783	4.8	0.17523	4	0.831	1040.9	38.7	1039.3	31.5	1035.9	54.5	-0.5
91500 7	745724	701593.49	118619	2.98	13.298	2.3	1.813	4.6	0.17495	3.9	0.86	1039.3	37.8	1050.2	30	1073	46.9	3.1
91500 8	917252	862970.79	2036753	2.97	13.44	3	1.773	4.6	0.17293	3.5	0.763	1028.2	33.2	1035.7	29.7	1051.7	59.7	2.2
91500 9	767342	721932.17	379323	2.96	13.612	2.8	1.795	4.4	0.17731	3.4	0.77	1052.3	32.7	1043.7	28.5	1025.8	56.4	-2.6

Ages

Zircon #	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U (%)	2σ	206Pb/238U (%)	2σ	Error	206Pb/238U (Ma)	2σ	207Pb/235U (Ma)	2σ	206Pb/207Pb (Ma)	2σ	% Disc.
91500 CA Run 1																		
91500-1	552634	727697	7828	2.76	13.519	2.1	1.734	3.8	0.17010	3.2	0.837	1012.7	29.6	1021.3	24.3	1039.7	41.8	2.6
91500-4	587197.4	773209	12666	2.78	13.318	3.2	1.724	6.1	0.16660	5.1	0.845	993.4	47.1	1017.5	38.9	1069.9	65.1	7.2
91500-5	506936.9	667524	6638	2.84	13.671	3.2	1.715	4.5	0.17010	3.3	0.716	1012.6	30.5	1014.1	29.2	1017.2	64.3	0.4
91500-6	460908.8	606915	34450	2.70	13.329	3.0	1.481	3.9	0.14321	2.6	0.652	862.8	20.7	922.5	23.9	1068.2	60.0	19.2
91500-7	587833.6	774047	14397	2.73	13.441	2.4	1.728	4.7	0.16855	4.0	0.855	1004.1	37.3	1019.1	30.2	1051.5	49.1	4.5
91500-8	559646.4	736930	25835	2.59	13.605	2.7	1.783	3.3	0.17597	1.9	0.565	1044.9	18.1	1039.1	21.6	1027.0	55.4	-1.7
91500-10	530936.7	699126	62285	2.75	13.710	2.1	1.747	3.9	0.17379	3.3	0.840	1033.0	31.3	1026.1	25.2	1011.4	42.8	-2.1
91500-11	522674.9	688247	13338	2.75	13.774	7.2	1.748	11.3	0.17468	8.7	0.768	1037.8	83.2	1026.3	73.1	1001.9	147.3	-3.6
91500-14	581317.7	765467	22529	2.74	13.542	2.2	1.735	3.4	0.17050	2.6	0.756	1014.9	24.2	1021.7	22.0	1036.4	45.1	2.1
91500-15	491536.6	647245	97207	2.83	13.487	3.6	1.745	5.3	0.17073	3.9	0.728	1016.2	36.2	1025.2	34.2	1044.5	73.3	2.7
91500 CA Run 1 (discordant)																		
91500-2	525403.3	691840	5351	2.72	14.917	8.1	1.686	25.0	0.18246	23.6	0.946	1080.4	235.3	1003.1	159.6	837.9	168.2	-28.9
91500-3	479703.7	631664	3834	2.65	14.106	2.3	1.679	3.4	0.17184	2.5	0.728	1022.2	23.6	1000.6	21.8	953.4	48.0	-7.2
91500-9	628569.1	827687	4448	2.62	14.073	1.9	1.669	3.0	0.17040	2.3	0.760	1014.3	21.1	996.8	18.8	958.3	39.3	-5.9
91500-12	470817.3	619962	3186	2.69	20.118	3.9	0.954	5.2	0.13929	3.5	0.671	840.6	27.5	680.3	25.8	180.2	90.0	####
91500-13	574094.5	755956	90638	2.90	11.984	2.6	1.875	7.0	0.16306	6.5	0.930	973.8	58.5	1072.4	46.1	1278.8	50.0	23.9
91500 CA Run 2																		
91500 1	755488	674370.94	40413	2.66	13.358	3.1	1.854	5.1	0.17969	4	0.782	1065.3	38.8	1064.8	33.4	1063.9	63.3	-0.1
91500 11	736217	657169.08	72735	2.55	13.54	2.1	1.841	4.4	0.18088	3.9	0.88	1071.8	38.3	1060.3	29	1036.6	42.3	-3.4
91500 12	806956	720312.8	55554	2.59	13.459	2.5	1.863	4.4	0.18197	3.7	0.823	1077.7	36.3	1068.2	29.4	1048.8	51	-2.8
91500 13	678492	605642.03	28300	2.57	13.604	2.8	1.842	4.8	0.18178	3.9	0.813	1076.7	38.6	1060.4	31.5	1027	56.4	-4.8
91500 15	726244	648266.88	131657	2.63	13.4	2.5	1.875	4.4	0.18228	3.7	0.824	1079.4	36.4	1072.2	29.4	1057.6	50.7	-2.1
91500 16	769404	686792.78	114132	2.54	13.28	2.9	1.883	5.2	0.18141	4.3	0.831	1074.7	42.8	1075	34.5	1075.6	58.1	0.1
91500 17	618093	551728.1	32100	2.59	13.379	3	1.87	4.1	0.18151	2.8	0.684	1075.2	27.7	1070.5	27	1060.8	60	-1.4
91500 18	681604	608419.9	53963	2.6	13.5	1.9	1.859	5	0.18206	4.7	0.923	1078.2	46.2	1066.5	33.3	1042.6	39.2	-3.4
91500 19	745007	665015.29	68229	2.57	13.406	2.3	1.863	4.3	0.18125	3.6	0.84	1073.8	35.4	1068.2	28.1	1056.8	46.4	-1.6
91500 2	654499	584225.17	239932	2.59	13.322	2.2	1.856	3.8	0.17941	3.1	0.811	1063.8	30.5	1065.6	25.3	1069.3	45.2	0.5
91500 20	738551	659252.47	215389	2.61	13.445	2.9	1.845	5	0.17995	4.1	0.817	1066.7	40.1	1061.5	32.9	1050.9	58	-1.5
91500 21	647918	578350.78	120776	2.54	13.49	2.7	1.859	4.6	0.18191	3.8	0.816	1077.4	37.4	1066.4	30.5	1044.1	53.9	-3.2
91500 22	559841	499730.64	663732	2.75	13.099	3.8	1.877	5.6	0.17844	4.1	0.73	1058.4	39.7	1073.2	37	1103.2	76.2	4.1
91500 23	709738	633533.14	1487161	2.61	13.599	2.6	1.814	6	0.17903	5.4	0.9	1061.7	52.4	1050.7	39	1027.8	52.6	-3.3

91500 24	626218	558980.72	124311	2.61	13.377	3	1.886	5	0.18304	4	0.796	1083.6	39.8	1076.1	33.2	1061	61	-2.1
91500 25	734369	655519.5	246803	2.68	13.318	2.4	1.848	4.4	0.17856	3.7	0.834	1059.1	35.9	1062.7	29	1069.9	48.8	1.0
91500 26	835064	745402.83	179489	2.55	13.472	2.7	1.857	4.3	0.18149	3.3	0.78	1075.1	32.9	1065.8	28.1	1046.8	53.7	-2.7
91500 27	679941	606935.45	74513	2.67	13.636	2.9	1.827	3.8	0.18075	2.5	0.663	1071.1	25.1	1055.1	25.2	1022.2	58.2	-4.8
91500 28	803929	717610.81	54210	2.63	13.257	3.2	1.818	5	0.17487	3.8	0.77	1038.9	36.6	1051.9	32.4	1079.2	63.3	3.7
91500 29	766901	684558.52	299682	2.54	13.311	3.3	1.857	4.7	0.17937	3.4	0.708	1063.5	32.9	1066	31.3	1071.1	67.2	0.7
91500 3	622568	555722.62	109347	2.79	13.341	2.4	1.854	4.2	0.17943	3.4	0.821	1063.9	33.6	1064.7	27.5	1066.4	47.8	0.2
91500 30	658123	587460.06	48440	2.62	13.309	3	1.858	4.8	0.1794	3.7	0.782	1063.7	36.6	1066.2	31.5	1071.3	59.7	0.7
91500 4	643465	574375.9	3027465	2.6	13.374	2.2	1.886	4	0.18305	3.3	0.83	1083.6	33.3	1076.3	26.7	1061.4	45.1	-2.1
91500 5	796945	711376.69	87402	2.71	13.39	3.1	1.804	5.1	0.17529	4	0.796	1041.2	38.7	1047	33.1	1059.2	61.6	1.7
91500 6	804832	718416.86	71895	2.65	13.313	2.5	1.822	4.4	0.17602	3.7	0.825	1045.2	35.3	1053.5	29	1070.7	50.3	2.4
91500 7	689572	615532.37	407956	2.61	13.571	3.1	1.821	4.9	0.1793	3.8	0.778	1063.2	37.1	1053	31.9	1031.9	61.8	-3.0
91500 8	664998	593596.89	38420	2.59	13.446	1.9	1.853	4.3	0.1808	3.9	0.899	1071.3	38	1064.5	28.3	1050.7	37.8	-2.0
91500 9	729798	651439.29	95071	2.65	13.606	2.6	1.838	5.1	0.18145	4.4	0.863	1074.9	43.4	1059.1	33.4	1026.7	52	-4.7
91500 CA Run 2 (discordant)																		
91500 10	662761	591600	30656	2.55	13.712	3.5	1.8289	5.4	0.18196	4.1	0.762	1077.7	40.7	1055.9	35.3	1011	70.6	-6.6
91500 14	575445	513659	22736	2.75	13.717	3.3	1.87	5	0.18612	3.7	0.747	1100.3	37.7	1070.5	33	1010.3	67.3	-8.9

TABLE S10: FC1 LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition											Ages						
	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb	2σ (%)	207Pb/235U	2σ (%)	206Pb/238U	2σ (%)	Error Corr.	206Pb/238U (Ma)	2σ (Ma)	207Pb/235U (Ma)	2σ (Ma)	206Pb/238U (Ma)	2σ (Ma)	% Disc.
FC1 no CA Run 1																		
FC1-11	2235740	2557472	31761	1.73	13.305	1.6	1.9048	3.7	0.18389	3.3	0.899	1088.2	33.2	1082.8	24.5	1071.9	32.3	-1.5
FC1-12	3475152	3975241	318394	2.04	12.932	1.8	1.9441	3.0	0.18242	2.4	0.802	1080.2	23.7	1096.4	19.9	1128.8	35.4	4.3
FC1-13	2170958	2483368	26223	1.71	12.980	2.0	1.9681	3.7	0.18536	3.0	0.830	1096.2	30.6	1104.7	24.6	1121.4	40.7	2.2
FC1-14	2971233	3398805	30198	1.65	13.093	1.8	1.9561	3.2	0.18584	2.6	0.826	1098.8	26.4	1100.6	21.2	1104.1	35.6	0.5
FC1-15	4044446	4626458	53851	1.39	12.761	2.5	1.9495	5.1	0.18051	4.5	0.872	1069.7	44.1	1098.3	34.4	1155.3	49.8	7.4
FC1-16	4002651	4578649	63839	1.72	13.074	1.9	1.9528	3.8	0.18524	3.3	0.866	1095.6	32.8	1099.4	25.2	1107.0	37.6	1.0
FC1-17	2357457	2696704	20204	1.28	13.106	1.8	1.9332	3.6	0.18384	3.1	0.860	1087.9	31.1	1092.6	24.1	1102.1	36.8	1.3
FC1-21	2669119	3053216	36493	1.62	13.173	1.6	1.9273	3.2	0.18422	2.8	0.864	1090.0	27.9	1090.6	21.6	1091.9	32.5	0.2
FC1-22	4375538	5005195	248861	1.80	13.091	1.8	1.9446	2.9	0.18471	2.3	0.782	1092.7	23.2	1096.6	19.8	1104.4	36.7	1.1
FC1-23	2254950	2579447	15855	1.64	13.154	2.3	1.9351	3.8	0.18469	2.9	0.780	1092.6	29.4	1093.3	25.1	1094.8	47.0	0.2
FC1-24	3561332	4073822	327238	2.45	13.210	1.6	1.9649	3.2	0.18834	2.8	0.866	1112.4	28.4	1103.6	21.6	1086.3	32.2	-2.4
FC1-26	3172664	3629223	162029	1.75	12.905	1.6	1.8968	3.5	0.17761	3.2	0.896	1053.9	30.8	1080.0	23.5	1132.9	31.2	7.0
FC1-27	1412283	1615517	101999	1.94	13.167	2.3	2.0000	4.1	0.19108	3.4	0.826	1127.2	35.0	1115.5	27.7	1092.8	46.2	-3.1
FC1-28	2050342	2345395	162002	1.99	13.274	2.3	1.9478	3.6	0.18761	2.8	0.776	1108.4	28.3	1097.7	24.0	1076.5	45.3	-3.0
FC1-29	3944821	4512497	30241	1.45	12.857	2.1	1.8497	4.2	0.17256	3.6	0.866	1026.2	34.6	1063.3	27.8	1140.3	41.9	10.0
FC1-3	3335188	3815135	35829	1.84	13.282	1.9	1.8593	4.7	0.17918	4.3	0.920	1062.5	42.6	1066.7	31.2	1075.5	37.1	1.2
FC1-30	4302837	4922033	56192	2.32	13.145	1.9	1.9059	3.1	0.18178	2.5	0.798	1076.7	24.6	1083.2	20.7	1096.2	37.6	1.8
FC1-4	3022444	3457386	20308	1.70	13.351	2.1	1.8882	3.2	0.18292	2.4	0.755	1082.9	23.8	1077.0	21.0	1065.0	41.6	-1.7
FC1-5	793161.6	907301	149727	3.24	12.816	3.1	1.9178	4.4	0.17833	3.2	0.721	1057.8	31.1	1087.3	29.5	1146.8	60.8	7.8
FC1-7	11061421	12653205	69338	1.75	13.096	1.9	1.9857	3.0	0.18868	2.4	0.790	1114.2	24.5	1110.6	20.5	1103.6	37.2	-1.0
FC1-8	1455125	1664524	56009	2.69	13.242	1.9	1.9632	3.4	0.18864	2.8	0.828	1114.0	28.8	1103.0	22.9	1081.4	38.3	-3.0
FC1 no CA Run 1 (discordant)																		
FC1-10	2491333	2849846	17033	1.74	13.195	2.2	2.0680	4.1	0.19800	3.5	0.847	1164.5	36.8	1138.3	27.9	1088.5	43.4	-7.0
FC1-2	1802401	2061774	11929	1.98	13.533	1.7	1.9200	4.7	0.18854	4.4	0.930	1113.5	44.8	1088.1	31.4	1037.6	35.0	-7.3
FC1-6	1508835	1725962	9258	1.37	13.531	3.4	1.9290	5.6	0.18940	4.4	0.791	1118.1	45.6	1091.2	37.6	1037.9	69.4	-7.7
FC1-xx	1334348	1526366	20613	110.26	12.958	2.3	2.6138	4.1	0.24575	3.4	0.823	1416.5	43.2	1304.5	30.3	1124.8	46.7	-25.9
FC1-xx	904756.4	1034955	18906	118.25	13.395	1.7	2.6175	3.5	0.25440	3.1	0.877	1461.1	39.9	1305.6	25.6	1058.3	33.6	-38.1
FC1-xx	3503655	4007845	88331	151.70	12.814	1.6	2.4027	3.3	0.22340	2.9	0.881	1299.8	34.6	1243.4	23.9	1147.0	31.4	-13.3
FC1-xx	1222450	1398366	20930	99.47	13.216	1.6	2.5146	3.7	0.24113	3.3	0.898	1392.5	41.2	1276.3	26.6	1085.4	32.4	-28.3
FC1-xx	1137221	1300871	15113	113.04	12.388	4.8	2.5189	6.7	0.22642	4.6	0.691	1315.7	54.7	1277.5	48.4	1213.8	94.8	-8.4
FC1-xx	2098826	2400855	63086	1.96	11.895	5.7	2.2792	6.8	0.19672	3.6	0.534	1157.7	38.3	1205.9	47.8	1293.2	111.3	10.5
FC1 no CA Run 2																		
FC 1	6122289	5759983.7	2.4E+07	1.65	13.093	2.2	1.9519	3.4	0.18543	2.6	0.761	1096.6	26	1099.1	22.8	1104.1	44.2	0.7
FC 11	3897116	3666492.2	353223	2.26	13.227	1.7	1.9467	2.9	0.18683	2.4	0.822	1104.2	24	1097.3	19.6	1083.6	33.3	-1.9
FC 12	3810510	3585011.3	417199	1.53	13.117	2.3	1.9463	3.7	0.18524	2.8	0.768	1095.5	28	1097.2	24.5	1100.4	46.8	0.4
FC 13	9225310	8679373.9	1239632	1.84	13.028	1.6	1.9769	2.7	0.18688	2.1	0.789	1104.4	21	1107.7	17.9	1114	32.5	0.9
FC 15	10435250	9817712	1101423	1.6	13.014	1.8	1.9797	2.8	0.18694	2.1	0.769	1104.8	22	1108.6	18.8	1116.2	35.6	1.0
FC 16	1597053	1502542.5	202949	2.48	13.085	2	1.9587	3.5	0.18596	2.8	0.822	1099.5	29	1101.4	23.3	1105.3	39.3	0.5

FC 17	9030006	8495627.6	592597	1.89	13.203	1.6	1.9627	2.6	0.18803	2.1	0.801	1110.7	22	1102.8	17.8	1087.3	31.8	-2.2
FC 18	3471332	3265905.2	351347	1.83	13.197	1.8	1.9236	3.1	0.1842	2.5	0.823	1089.9	26	1089.3	20.7	1088.2	35.2	-0.2
FC 19	8638256	8127060.6	590751	1.94	13.031	1.4	1.9499	2.6	0.18437	2.2	0.83	1090.8	22	1098.4	17.4	1113.5	28.9	2.0
FC 2	2888932	2717970.6	356446	1.64	13.215	2	1.9438	3.1	0.18639	2.3	0.748	1101.8	23	1096.3	20.5	1085.5	40.6	-1.5
FC 20	3581091	3369168.9	1307488	2.16	13.189	1.7	1.9604	3.2	0.1876	2.7	0.846	1108.3	28	1102	21.8	1089.5	34.6	-1.7
FC 21	11430502	10754067	1939955	1.57	13.07	1.5	1.9884	2.8	0.18858	2.3	0.85	1113.7	24	1111.6	18.6	1107.5	29	-0.6
FC 22	4657708	4382073.8	5136523	1.85	13.225	2.3	1.9269	3.3	0.1849	2.3	0.709	1093.7	23	1090.5	21.8	1084	46	-0.9
FC 23	2332782	2194732.4	273305	2.04	13.171	2.9	1.9228	4.6	0.18375	3.5	0.771	1087.4	35	1089	30.7	1092.2	58.6	0.4
FC 24	12675443	11925335	1280901	1.3	13.054	1.9	1.9712	2.8	0.18671	2.1	0.736	1103.5	21	1105.7	19.1	1110	38.2	0.6
FC 25	5022353	4725139.8	1315814	1.67	12.981	2.1	1.9744	3.1	0.18596	2.3	0.728	1099.5	23	1106.8	21	1121.3	42.6	1.9
FC 27	6022410	5666015.3	422364	1.67	13.107	2.2	1.9204	3.5	0.18264	2.8	0.784	1081.4	27	1088.2	23.4	1101.9	43.5	1.9
FC 28	5292827	4979607.7	889929	1.89	13.125	1.9	1.985	3	0.18903	2.4	0.786	1116.1	24	1110.4	20.4	1099.2	37.4	-1.5
FC 29	9449935	8890706	3823474	1.19	13.136	2.3	1.9977	3.5	0.1904	2.6	0.746	1123.6	27	1114.7	23.8	1097.5	46.9	-2.4
FC 3	3113550	2929296.1	3792871	1.64	13.266	2.3	1.9426	3.2	0.18699	2.2	0.7	1105	23	1095.9	21.2	1077.7	45.4	-2.5
FC 30	3486587	3280257.5	191514	1.76	13.116	1.9	1.9255	3.2	0.18324	2.6	0.816	1084.7	26	1090	21.6	1100.6	37.3	1.4
FC 31	1470791	1383752.4	133579	3.18	13.205	2.3	1.9386	3.7	0.18574	2.9	0.782	1098.3	30	1094.5	25	1087	46.6	-1.0
FC 32	2443449	2298850.4	2057891	1.82	13.216	1.7	1.9157	3.5	0.18371	3.1	0.88	1087.2	31	1086.6	23.2	1085.3	33.1	-0.2
FC 33	3243781	3051820.3	163465	1.76	13.191	2.2	1.9199	3.3	0.18375	2.5	0.762	1087.4	25	1088	22.2	1089.2	43.1	0.2
FC 34	4623834	4350204.4	335965	1.9	12.997	1.6	1.9158	2.7	0.18068	2.2	0.818	1070.7	22	1086.6	18.3	1118.7	31.5	4.3
FC 35	3155436	2968703.4	412106	1.84	13.237	2.1	1.9622	3.2	0.18846	2.4	0.75	1113	24	1102.6	21.2	1082.2	41.9	-2.8
FC 36	5111810	4809302.9	242304	2.48	13.114	2.1	1.9584	3.5	0.18635	2.9	0.809	1101.6	29	1101.3	23.8	1100.8	41.7	-0.1
FC 37	10674770	10043058	1059187	1.38	13.032	1.5	1.9694	3	0.18622	2.6	0.864	1100.9	27	1105.1	20.5	1113.4	30.6	1.1
FC 38	2718465	2557591.5	107688	2.41	13.146	2.3	1.9451	3.5	0.18553	2.7	0.761	1097.1	27	1096.8	23.7	1096	46	-0.1
FC 39	10881942	10237970	516430	1.64	13.1	1.6	1.9606	2.4	0.18635	1.9	0.764	1101.6	19	1102.1	16.3	1103	31.4	0.1
FC 4	2763009	2599499.4	779526	1.71	13.094	1.9	1.9453	3.1	0.18482	2.5	0.785	1093.2	25	1096.8	21	1104	38.9	1.0
FC 41	3615413	3401459.8	514881	3.45	13.101	2.2	1.9829	3.5	0.18848	2.6	0.76	1113.2	27	1109.7	23.3	1102.9	44.9	-0.9
FC 42	4583428	4312189.5	1573919	2.19	13.26	1.8	1.9546	3	0.18805	2.4	0.794	1110.8	24	1100	20.2	1078.7	36.7	-3.0
FC 43	18432818	17341999	1E+07	1.26	12.808	1.9	2.0374	2.6	0.18935	1.8	0.693	1117.8	19	1128.1	17.9	1147.9	37.5	2.6
FC 44	4703060	4424741.9	340495	1.96	13.102	2.2	1.9543	3.6	0.18578	2.9	0.804	1098.5	30	1099.9	24.4	1102.7	43.2	0.4
FC 45	10933155	10286152	536074	1.95	12.963	1.4	2.011	2.9	0.18916	2.5	0.874	1116.8	26	1119.2	19.7	1123.9	28.1	0.6
FC 46	3189218	3000486.2	167369	1.84	13.26	2.7	1.9291	4.5	0.18561	3.6	0.801	1097.6	36	1091.2	29.8	1078.7	53.5	-1.8
FC 47	2037804	1917210.7	155761	1.97	13.155	2.1	1.9162	3.6	0.1829	3	0.825	1082.8	30	1086.8	24.3	1094.6	41.3	1.1
FC 48	1591298	1497128	149085	3.18	13.224	1.9	1.932	3.6	0.18538	3.1	0.85	1096.3	31	1092.2	24.2	1084.1	38.2	-1.1
FC 49	1978282	1861211.1	303002	2.79	13.228	1.8	1.9185	2.9	0.18414	2.3	0.783	1089.5	23	1087.5	19.3	1083.5	36	-0.6
FC 50	3212303	3022205.1	929570	1.71	12.941	2.1	1.965	2.8	0.18451	1.9	0.666	1091.5	19	1103.6	19.1	1127.4	42.2	3.2
FC 51	3985364	3749517.8	380624	1.98	13.08	1.9	1.965	2.8	0.18649	2	0.738	1102.4	21	1103.6	18.5	1106	37.2	0.3
FC 52	1864858	1754499.3	138310	2.1	12.938	2.2	1.9843	3	0.18629	2.1	0.699	1101.2	21	1110.2	20.4	1127.8	43	2.4
FC 54	9479296	8918329.5	1414586	1.14	12.872	1.6	1.9779	2.6	0.18473	2	0.792	1092.8	20	1108	17.3	1138	31.1	4.0
FC 58	1564306	1471733.4	254765	2.38	13.215	2.2	1.9418	3.8	0.1862	3.1	0.807	1100.7	31	1095.6	25.4	1085.4	44.8	-1.4
FC 59	4525774	4257947.4	1207841	1.83	13.152	2.1	1.9424	3.8	0.18536	3.1	0.825	1096.2	32	1095.8	25.4	1095.1	42.9	-0.1
FC 6	10962406	10313672	1537186	1.63	13.012	2.2	1.9989	3.4	0.18873	2.6	0.772	1114.5	27	1115.1	23	1116.5	43	0.2
FC 60	4745990	4465131.4	352789	2.59	13.149	1.9	1.9391	3.5	0.18501	3	0.842	1094.3	30	1094.7	23.7	1095.5	38.2	0.1
FC 61	4032072	3793461.7	2172047	1.98	13.129	2.2	1.9264	3.6	0.18352	2.9	0.806	1086.2	29	1090.3	24.3	1098.5	43	1.1

FC 62	6924477	6514699.8	321019	1.91	13.06	2.1	1.9611	3	0.18584	2.1	0.694	1098.8	21	1102.2	20	1109	42.8	0.9
FC 63	3946456	3712912.3	1438619	1.94	13.051	1.7	1.9828	2.7	0.18776	2.1	0.777	1109.2	22	1109.7	18.3	1110.5	34.2	0.1
FC 64	6231078	5862334.8	348000	2.05	13.141	1.7	1.9604	3.3	0.18693	2.8	0.849	1104.7	28	1102	22.1	1096.7	34.8	-0.7
FC 65	9586349	9019047.3	2211375	1.17	13.105	2	1.9541	3.3	0.18581	2.6	0.799	1098.6	27	1099.9	22.2	1102.3	39.7	0.3
FC 66	4692312	4414630	1546568	2	13.198	2.1	1.9389	3.4	0.18568	2.7	0.788	1097.9	27	1094.6	22.6	1088.1	41.6	-0.9
FC 67	2421122	2277844.7	243071	1.74	13.15	1.9	1.9316	3.5	0.1843	3	0.847	1090.4	30	1092.1	23.4	1095.4	37.2	0.5
FC 68	4741829	4461216.7	646144	1.78	13.156	1.8	1.9595	3.2	0.18704	2.6	0.825	1105.3	26	1101.7	21.2	1094.5	35.7	-1.0
FC 69	8095873	7616774.8	2E+07	1.41	12.99	1.9	1.9643	3.4	0.18514	2.8	0.83	1095	28	1103.3	22.6	1119.8	37.3	2.2
FC 7	4400676	4140252.4	567971	2.11	13.164	1.7	1.925	2.5	0.18387	1.7	0.711	1088.1	18	1089.8	16.4	1093.2	34.5	0.5
FC 70	3906224	3675061.2	172283	2.5	12.949	1.9	1.9539	2.8	0.18358	2.1	0.727	1086.5	21	1099.8	19.1	1126.1	38.9	3.5
FC 71	8472991	7971575.7	1021575	1.7	13.232	1.8	1.9466	2.7	0.18689	2	0.747	1104.5	21	1097.3	18.1	1082.9	36	-2.0
FC 73	3340134	3142471.3	189979	2.46	13.227	1.9	1.9306	3.3	0.1853	2.7	0.821	1095.8	27	1091.8	21.8	1083.6	37.2	-1.1
FC 74	3063869	2882555.1	392456	2.29	13.157	1.8	1.9232	3.3	0.18361	2.8	0.835	1086.6	28	1089.2	22.3	1094.3	36.7	0.7
FC 75	2669219	2511259.7	113229	1.6	13.232	1.7	1.947	3	0.18694	2.4	0.811	1104.8	24	1097.4	19.8	1082.8	34.6	-2.0
FC 76	1506908	1417732.1	90357	2.4	13.136	2.4	1.9561	4.3	0.18644	3.5	0.828	1102.1	36	1100.5	28.8	1097.5	48.1	-0.4
FC 77	4310985	4055869.2	361980	2.06	12.978	1.8	1.9568	3.1	0.18426	2.5	0.815	1090.2	25	1100.8	20.9	1121.7	35.9	2.8
FC 78	10547405	9923229.8	349784	1.56	13.171	1.9	1.9714	3	0.1884	2.3	0.766	1112.7	24	1105.8	20.3	1092.2	38.7	-1.9
FC 79	1225904	1153357.4	122095	3.37	13.022	1.9	1.934	3.5	0.18274	2.9	0.832	1081.9	29	1092.9	23.3	1114.9	38.5	3.0
FC 8	5538042	5210311.3	616773	1.8	13.173	2.7	1.9629	3.7	0.18763	2.6	0.683	1108.5	26	1102.9	25.2	1091.8	54.8	-1.5
FC 80	1026772	966009.61	45070	2.43	13.457	2.6	1.8963	3.6	0.18517	2.6	0.71	1095.1	26	1079.8	24.2	1049	51.7	-4.4
FC 81	7855586	7390707.5	639311	1.89	13.188	1.8	1.9716	2.9	0.18866	2.3	0.797	1114.1	24	1105.8	19.8	1089.6	35.5	-2.2
FC 82	2340465	2201960.8	97569	1.75	13.217	2.1	1.9355	3.2	0.18562	2.4	0.743	1097.6	24	1093.5	21.2	1085.2	42.5	-1.1
FC 84	1878469	1767304.8	1275760	2.64	13.228	2.2	1.9225	3.7	0.18453	3	0.808	1091.7	30	1088.9	24.5	1083.5	43.2	-0.8
FC 86	4114813	3871306.3	946270	2.14	13.054	1.8	1.9436	2.9	0.18409	2.2	0.771	1089.3	22	1096.2	19.4	1110	36.8	1.9
FC 87	3550261	3340163.4	880293	2.36	13.172	2.2	1.9281	3.5	0.18428	2.7	0.78	1090.3	27	1090.9	23.2	1092	43.4	0.2
FC 9	6293328	5920900.9	444911	1.56	13.099	3	2.0014	3.7	0.19021	2.2	0.583	1122.5	22	1116	25.2	1103.2	60.6	-1.7

FC1 no CA Run 2 (discordant)

FC 10	1241324	1167864.8	174466	105.88	13.247	2.6	2.4587	4.7	0.23632	3.9	0.835	1367.6	48	1260	33.6	1080.7	51.5	-26.5
FC 14	1481206	1393551.1	211875	131.81	12.945	2.2	2.5026	6.5	0.23508	6.1	0.940	1361.1	75	1272.8	47	1126.7	44.1	-20.8
FC 26	2958719	2783627.7	154730	132.73	13.117	3.3	2.4378	5.1	0.23202	3.8	0.755	1345.1	46	1253.8	36.4	1100.4	66.4	-22.2
FC 40	1965407	1849098	361541	92.61	13.037	3.1	2.5049	4.4	0.23696	3.2	0.725	1370.9	40	1273.5	32.2	1112.6	61	-23.2
FC 5	1332628	1253765.6	324170	127.10	13.01	2.8	2.3964	4.6	0.22622	3.6	0.795	1314.7	43	1241.5	32.8	1116.8	55.4	-17.7
FC 53	1516884	1427117.7	151125	95.15	13.1	1.8	2.3763	3.9	0.22588	3.5	0.885	1312.9	41	1235.5	28.1	1103	36.6	-19.0
FC 55	3823953	3597658.8	559087	1.24	13.109	2.6	2.109	3.9	0.20061	3	0.759	1178.6	32	1151.8	27	1101.6	51.1	-7.0
FC 56	1316115	1238229.8	104748	127.42	13.343	2.9	2.3043	5.8	0.22309	5.1	0.872	1298.2	60	1213.6	41.4	1066.1	57.7	-21.8
FC 57	4140266	3895253	381975	1.30	13.161	2.3	2.0484	4	0.19561	3.3	0.828	1151.7	35	1131.8	27.6	1093.7	45.4	-5.3
FC 72	1893874	1781798.2	75367	126.50	13.414	2.3	2.4528	7	0.23873	6.6	0.945	1380.1	82	1258.3	50.2	1055.5	46	-30.8
FC 83	1463386	1376785.6	105777	162.40	13.154	2.8	2.4585	4	0.23465	2.8	0.705	1358.8	35	1259.9	28.9	1094.8	56.8	-24.1
FC 85	1241710	1168228	101240	93.13	12.782	4.5	2.4775	6.2	0.22977	4.3	0.689	1333.3	51	1265.5	44.8	1152	89.1	-15.7

Composition

Ages

Zircon #	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb (%)	2σ	207Pb/235U (%)	2σ	206Pb/238U (%)	2σ	Error Corr.	206Pb/238U (Ma)	2σ	207Pb/235U (Ma)	2σ	206Pb/207Pb (Ma)	2σ	% Disc.
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FC1 CA Run 1

FC1-2	1578327	2078308	9427	2.03	13.176	2.1	1.965	3.6	0.18789	2.9	0.813	1109.9	29.7	1103.7	24.1	1091.5	41.7	-1.7
FC1-3	1270304	1672709	17295	1.91	13.296	2.3	1.819	5.3	0.17550	4.8	0.898	1042.3	45.9	1052.4	34.8	1073.3	47.0	2.9
FC1-4	1244386	1638581	17632	1.95	13.123	2.2	1.986	3.9	0.18911	3.2	0.820	1116.6	32.9	1110.8	26.4	1099.6	44.8	-1.5
FC1-28	2955933	3892310	37041	1.87	13.058	1.5	1.952	2.8	0.18495	2.4	0.857	1094.0	24.5	1099.2	19.1	1109.4	29.3	1.4
FC1-29	3564697	4693917	568400	1.92	12.971	1.8	1.942	3.5	0.18280	3.0	0.859	1082.3	29.8	1095.8	23.4	1122.8	35.6	3.6
FC1-5	1244386	1638581	26456	1.51	13.085	2.2	1.919	3.9	0.18222	3.1	0.815	1079.1	31.3	1087.8	25.8	1105.4	44.8	2.4
FC1-10	2116904	2787494	34164	1.63	12.987	2.0	1.926	4.3	0.18148	3.8	0.886	1075.1	37.9	1090.1	28.9	1120.3	40.0	4.0
FC1-11	1418527	1867886	262810	2.04	12.981	2.0	1.995	3.5	0.18791	2.8	0.818	1110.1	28.9	1113.8	23.4	1121.3	39.8	1.0
FC1-6	3635937	4787725	111205	1.96	13.074	1.7	1.931	4.1	0.18315	3.7	0.913	1084.1	37.4	1091.8	27.4	1107.0	33.5	2.1
FC1-12	1669152	2197905	19230	1.90	13.338	2.2	1.891	3.8	0.18297	3.1	0.824	1083.2	31.2	1077.8	25.2	1067.0	43.2	-1.5
FC1-13	1403475	1848066	14075	2.07	13.137	2.5	1.974	4.5	0.18820	3.8	0.836	1111.6	38.6	1106.8	30.5	1097.4	49.7	-1.3
FC1-26	2471792	3254803	37389	1.88	13.122	1.7	1.854	3.1	0.17656	2.6	0.830	1048.2	25.2	1065.0	20.7	1099.6	35.0	4.7
FC1-14	3549228	4673549	47581	1.86	13.169	1.7	1.932	3.6	0.18457	3.1	0.885	1091.9	31.6	1092.1	23.8	1092.5	33.1	0.1
FC1-20	1076687	1417758	312662	1.57	13.232	1.5	1.929	3.1	0.18525	2.6	0.863	1095.6	26.6	1091.4	20.4	1082.9	30.9	-1.2
FC1-27	1327274	1747727	195211	1.82	13.129	1.6	1.951	3.3	0.18583	2.9	0.881	1098.7	29.3	1098.7	22.1	1098.5	31.1	0.0
FC1-17	3290252	4332534	40918	1.85	13.197	1.9	1.948	3.3	0.18651	2.7	0.819	1102.4	27.5	1097.7	22.2	1088.2	38.1	-1.3
FC1-25	865205.9	1139285	375208	1.57	12.996	2.0	1.904	4.2	0.17954	3.7	0.877	1064.4	36.3	1082.5	28.1	1118.9	40.5	4.9
FC1-19	1118865	1473298	122465	1.60	13.099	1.4	1.893	4.4	0.17995	4.2	0.946	1066.7	41.0	1078.7	29.3	1103.2	28.5	3.3
FC1-15	1111270	1463297	36059	1.79	13.254	1.5	1.893	2.8	0.18203	2.4	0.852	1078.1	23.9	1078.6	18.7	1079.6	29.6	0.1
FC1-16	1110043	1461681	8242	1.99	13.462	1.8	1.897	3.2	0.18531	2.6	0.821	1095.9	26.2	1080.1	21.1	1048.4	36.6	-4.5
FC1-30	1141323	1502870	44061	1.78	13.067	2.0	1.960	3.2	0.18581	2.5	0.788	1098.7	25.6	1101.8	21.6	1108.1	39.5	0.9
FC1-24	1313880	1730089	21854	2.31	13.238	2.1	1.944	4.4	0.18669	3.8	0.871	1103.4	38.5	1096.3	29.3	1082.1	43.0	-2.0
FC1-18	1026446	1351603	29117	1.68	13.036	2.2	1.932	3.7	0.18278	3.0	0.800	1082.2	29.7	1092.4	25.0	1112.8	44.8	2.8
FC1-21	3347328	4407690	137397	1.82	13.129	1.4	1.965	2.9	0.18718	2.6	0.885	1106.1	26.3	1103.5	19.6	1098.5	27.2	-0.7
FC1-22	1502186	1978046	38717	2.16	13.108	1.6	1.942	3.5	0.18473	3.1	0.893	1092.8	31.5	1095.8	23.5	1101.7	31.6	0.8
FC1-23	841626.5	1108236	6382	1.58	13.515	2.9	1.852	4.1	0.18166	2.9	0.701	1076.0	28.3	1064.3	26.9	1040.3	58.7	-3.4
FC1-8	3584269	4719689	99262	1.83	13.040	1.9	1.945	3.4	0.18400	2.8	0.826	1088.8	28.1	1096.6	22.8	1112.2	38.1	2.1

FC1 CA Run 1 (discordant)

FC-xx	1463637	1927287	123282	1.78	12.766	2.5	1.999	3.5	0.18513	2.4	0.686	1095.0	24.1	1115.1	23.6	1154.5	50.4	5.2
FC	1473281	1939985	15432	1.36	13.356	2.0	1.959	2.8	0.18980	1.9	0.703	1120.3	19.9	1101.4	18.5	1064.2	39.3	-5.3
FC1-9	1230258	1619978	5489	1.73	13.526	2.2	1.899	3.1	0.18638	2.2	0.711	1101.8	22.6	1080.8	20.8	1038.7	44.5	-6.1

FC1 CA Run 2

FC 1	1289556	1151095.8	55877	1.57	13.116	1.9	1.934	3.9	0.18405	3.4	0.874	1089.1	34	1092.9	25.9	1100.6	37.6	1.0
FC 10	1842024	1644245.1	465080	1.36	13.058	1.7	1.9524	3	0.18499	2.5	0.826	1094.2	25	1099.3	20.3	1109.3	34	1.4
FC 11	4897509	4371661.4	427292	1.61	13.064	1.5	1.9758	2.4	0.1873	1.8	0.758	1106.7	18	1107.3	15.9	1108.4	30.6	0.2
FC 12	2179744	1945704	191670	1.76	13.142	2.7	1.9391	3.6	0.18492	2.4	0.674	1093.8	24	1094.7	24.1	1096.5	53.1	0.2
FC 13	1927802	1720813.1	166045	2.05	13.244	2	1.9173	3	0.18425	2.3	0.762	1090.1	23	1087.1	20.2	1081.1	39.4	-0.8
FC 14	1667875	1488794.6	154834	1.69	13.152	1.8	1.9041	3.3	0.18171	2.7	0.843	1076.3	27	1082.5	21.7	1095.1	35.1	1.7
FC 15	1168174	1042746.7	310181	1.59	13.394	2.1	1.9218	3.5	0.18677	2.8	0.8	1103.8	28	1088.7	23.1	1058.5	41.8	-4.3
FC 16	1727527	1542041.7	163699	1.5	13.286	2.3	1.941	3.7	0.18711	2.9	0.788	1105.7	30	1095.3	24.6	1074.8	45.4	-2.9
FC 17	2331266	2080957	289942	1.86	13.11	2.3	1.9398	3.4	0.18452	2.5	0.741	1091.6	25	1094.9	22.6	1101.5	45.4	0.9
FC 18	5015595	4477068.5	304097	1.81	13.138	1.6	1.975	3	0.18827	2.5	0.838	1112	26	1107	20	1097.2	32.5	-1.3

FC 19	1674874	1495042.1	91584	1.48	13.169	2.5	1.9477	3.5	0.18611	2.5	0.705	1100.3	25	1097.7	23.8	1092.5	50.3	-0.7
FC 2	702743	627289.19	493698	2.24	13.282	2.5	1.9329	3.9	0.18628	2.9	0.758	1101.2	30	1092.6	26	1075.4	50.8	-2.4
FC 20	4937818	4407642.4	366256	1.75	13.14	1.4	1.9813	2.6	0.1889	2.1	0.836	1115.4	22	1109.2	17.3	1097	28	-1.7
FC 21	2823315	2520174.5	467167	1.38	13.056	1.9	1.9645	3.1	0.1861	2.5	0.793	1100.2	25	1103.4	21	1109.7	38.1	0.9
FC 22	4726594	4219097.7	263972	1.56	13.16	2.1	1.9797	3.4	0.18904	2.7	0.795	1116.2	28	1108.6	23.2	1093.9	41.7	-2.0
FC 23	1914854	1709255.3	259893	1.66	13.201	2	1.9333	3.3	0.18518	2.6	0.783	1095.2	26	1092.7	21.9	1087.6	40.7	-0.7
FC 24	1123312	1002701.5	250468	1.51	13.233	2.2	1.9065	3.5	0.18306	2.8	0.775	1083.7	27	1083.4	23.6	1082.8	45	-0.1
FC 25	1541284	1375795.7	414658	1.61	13.101	1.9	1.9476	2.9	0.18514	2.2	0.747	1095	22	1097.6	19.6	1102.8	39	0.7
FC 26	3304939	2950086.3	169425	1.51	13.143	1.7	1.9249	5.6	0.18356	5.4	0.954	1086.4	54	1089.8	37.7	1096.4	33.8	0.9
FC 27	5098688	4551239.8	851547	1.8	13.108	2.3	1.9422	3.4	0.18473	2.5	0.738	1092.8	25	1095.8	22.6	1101.8	45.5	0.8
FC 28	4251655	3795153	675493	1.81	13.077	1.5	1.9613	2.7	0.1861	2.2	0.82	1100.2	22	1102.3	18.1	1106.5	30.7	0.6
FC 29	4959125	4426661.7	381713	1.83	13.231	1.3	1.9514	2.6	0.18734	2.3	0.866	1107	23	1098.9	17.7	1083	26.4	-2.2
FC 3	2757199	2461157.4	395195	1.99	13.01	2.1	1.946	3	0.1837	2.1	0.698	1087.1	21	1097.1	20.1	1116.8	42.9	2.7
FC 30	1440398	1285741.9	517898	1.6	13.117	1.7	1.9787	3	0.18833	2.5	0.832	1112.3	25	1108.3	20.2	1100.4	33.2	-1.1
FC 31	903473	806466.73	45894	1.66	13.369	2.2	1.8837	3.8	0.18273	3.1	0.81	1081.8	31	1075.4	25.3	1062.3	45	-1.8
FC 32	3103577	2770344.7	141836	1.5	13.069	1.7	1.9512	2.7	0.18503	2.1	0.783	1094.4	21	1098.9	18	1107.7	33.2	1.2
FC 33	1469612	1311819.2	116039	1.73	13.329	1.8	1.9329	3.2	0.18694	2.6	0.829	1104.8	27	1092.5	21.3	1068.3	35.8	-3.4
FC 34	835237	745557.26	170635	2.02	13.137	2.4	1.9836	4	0.18908	3.3	0.81	1116.4	34	1109.9	27.2	1097.3	47.4	-1.7
FC 35	2203604	1967002.1	171209	1.78	13.253	1.6	1.9435	3	0.1869	2.6	0.857	1104.5	26	1096.2	20.3	1079.6	31.3	-2.3
FC 36	1527569	1363553.3	7794170	1.61	13.06	1.8	1.9508	2.7	0.18487	2.1	0.77	1093.5	21	1098.7	18.4	1109	35	1.4
FC 37	3259449	2909480.6	1370694	1.64	13.127	2	1.949	3	0.18563	2.3	0.757	1097.7	23	1098.1	20.4	1098.9	39.7	0.1
FC 38	749087	668657.22	326763	1.6	13.266	2.1	1.958	3.9	0.18848	3.2	0.833	1113.1	33	1101.2	25.9	1077.7	42.7	-3.3
FC 39	1893126	1689860.3	128002	1.73	13.122	1.9	1.9219	3.3	0.183	2.7	0.821	1083.3	27	1088.7	22.3	1099.6	38.1	1.5
FC 4	1447598	1292168.8	54039	1.65	13.224	2.5	1.9062	3.6	0.18291	2.6	0.708	1082.8	26	1083.3	24	1084.1	51	0.1
FC 40	5282571	4715379.2	447456	1.85	13.078	1.9	1.945	3.1	0.18457	2.5	0.793	1091.9	25	1096.7	21.1	1106.4	38.3	1.3
FC 41	1778239	1587308.7	168755	1.65	13.001	1.6	1.9556	3.4	0.18447	3	0.879	1091.4	30	1100.4	23	1118.2	32.6	2.4
FC 42	4952483	4420732.9	1447344	1.76	13.086	1.6	2.0105	2.7	0.1909	2.2	0.809	1126.2	23	1119.1	18.3	1105.1	31.8	-1.9
FC 43	2215310	1977451.3	331325	1.68	13.109	1.9	1.9852	3.1	0.18883	2.4	0.795	1115	25	1110.5	20.7	1101.6	37.1	-1.2
FC 44	1646459	1469678	130231	1.75	12.982	2	1.9661	3.1	0.18521	2.4	0.776	1095.4	25	1104	21.2	1121	39.6	2.3
FC 45	1918289	1712321.5	453473	1.83	13.099	2.1	1.9443	3.3	0.18479	2.6	0.777	1093.1	26	1096.5	22.3	1103.2	41.8	0.9
FC 46	2428761	2167983.9	107725	1.86	13.201	2.1	1.9876	3.1	0.19039	2.3	0.75	1123.5	24	1111.3	21	1087.6	41.3	-3.3
FC 47	3056757	2728551.7	317162	1.42	13.128	1.9	1.937	2.9	0.18451	2.2	0.756	1091.5	22	1094	19.4	1098.7	37.9	0.7
FC 48	2049719	1829639.8	1E+07	1.79	13.152	2.1	1.9559	3.4	0.18666	2.7	0.784	1103.2	27	1100.5	23	1095.1	42.5	-0.7
FC 49	2153007	1921837.8	71189	1.49	13.226	2.3	1.9041	3.3	0.18274	2.4	0.724	1081.9	24	1082.5	22	1083.7	45.6	0.2
FC 5	5042672	4501238.2	455068	1.83	13.091	1.8	1.9622	3.1	0.18638	2.5	0.821	1101.8	26	1102.6	20.7	1104.4	35.2	0.2
FC 50	1702384	1519598.3	2640607	1.64	13.063	2.2	1.9561	3.7	0.18541	3	0.814	1096.4	31	1100.5	25	1108.7	43.2	1.1
FC 51	1698340	1515988.5	399458	1.7	13.152	1.9	1.9533	3	0.1864	2.4	0.783	1101.8	24	1099.6	20.5	1095.1	37.9	-0.6
FC 52	2036805	1818112.4	158650	2.37	13.284	1.2	1.94	2.1	0.187	1.7	0.814	1105.1	18	1095	14.3	1075	24.8	-2.8
FC 53	2116407	1889167.5	356875	1.45	13.128	2.6	1.9363	4	0.18444	3.1	0.773	1091.2	31	1093.7	26.9	1098.7	51	0.7
FC 54	4900585	4374407.2	485524	1.84	13.033	1.9	1.9507	2.6	0.18447	1.9	0.711	1091.3	19	1098.7	17.8	1113.2	37.2	2.0
FC 55	6190346	5525686	351209	1.8	13.043	1.8	1.9489	2.7	0.18444	2.1	0.758	1091.2	21	1098.1	18.4	1111.7	35.7	1.8
FC 56	1333389	1190222.5	56152	1.51	13.212	2.2	1.9282	3.7	0.18485	3	0.812	1093.4	30	1090.9	24.7	1085.9	43.2	-0.7
FC 57	2168010	1935229.9	1005429	1.83	13.175	2.2	1.9555	3	0.18693	2.1	0.68	1104.7	21	1100.3	20.4	1091.6	44.7	-1.2

FC 58	3048605	2721275	186365	1.54	13.07	1.9	1.94	3.3	0.18398	2.7	0.814	1088.7	27	1095	21.9	1107.5	37.9	1.7
FC 59	1766726	1577031.9	127490	1.47	13.171	2.2	1.9535	3.7	0.18668	3	0.802	1103.4	30	1099.6	24.8	1092.3	44.2	-1.0
FC 6	2688642	2399961.4	232236	1.4	13.006	2	1.9636	3.4	0.18531	2.8	0.809	1095.9	28	1103.1	23	1117.3	40	1.9
FC 60	1852756	1653824.8	956919	1.71	13.32	2	1.9382	3.6	0.18732	3	0.839	1106.8	31	1094.4	24.1	1069.7	39.2	-3.5
FC 61	1565528	1397436.6	151844	1.63	13.194	2.1	1.9761	3.6	0.18919	2.8	0.799	1117	29	1107.4	23.9	1088.6	42.7	-2.6
FC 62	1747398	1559779.2	150389	2.06	13.229	2.1	1.9461	3.1	0.18681	2.3	0.74	1104.1	23	1097.1	20.6	1083.4	41.4	-1.9
FC 63	1589443	1418783.8	425564	1.56	13.124	1.8	1.9366	3.6	0.18442	3.1	0.859	1091.1	31	1093.8	23.8	1099.4	36.4	0.8
FC 64	1575675	1406494.1	330703	1.72	13.207	2.1	1.9483	3.6	0.1867	3	0.817	1103.5	30	1097.8	24.3	1086.8	41.9	-1.5
FC 65	1097277	979461.92	250124	1.57	13.285	2.4	1.9179	3.8	0.18487	3	0.784	1093.5	30	1087.4	25.3	1075	47.3	-1.7
FC 66	1257248	1122256.8	97607	1.61	13.106	2.2	1.9358	3.6	0.18409	2.8	0.791	1089.3	28	1093.6	23.9	1102.1	43.6	1.2
FC 67	5255901	4691572.7	522897	1.77	13.019	1.6	1.9929	2.8	0.18825	2.3	0.82	1111.9	23	1113.1	18.6	1115.5	31.4	0.3
FC 68	2361699	2108122.4	119554	1.84	13.259	1.6	1.929	2.9	0.18558	2.4	0.829	1097.4	24	1091.2	19.3	1078.9	32.3	-1.7
FC 69	5158319	4604468.2	364736	1.81	13.184	1.6	1.9202	2.6	0.18369	2	0.788	1087.1	20	1088.1	17.3	1090.2	31.9	0.3
FC 7	1874689	1673402.9	148244	1.89	13.15	2.3	1.919	3.4	0.1831	2.6	0.752	1083.9	26	1087.7	22.9	1095.4	45.3	1.0
FC 70	1900676	1696599.6	57276	2.39	13.234	1.9	1.961	3	0.1883	2.3	0.774	1112.1	24	1102.2	20.2	1082.7	38.1	-2.7
FC 71	5094895	4547854	912748	1.78	13.147	2.1	1.9838	3.2	0.18924	2.4	0.759	1117.2	25	1110	21.6	1095.9	41.7	-1.9
FC 72	2859854	2552790.3	215120	1.9	12.995	1.8	1.9352	3	0.18248	2.3	0.791	1080.5	23	1093.4	19.8	1119	36.1	3.4
FC 73	5952285	5313185.7	2494868	1.82	13.015	1.6	1.9602	2.5	0.18512	2	0.783	1094.9	20	1101.9	16.9	1115.9	31.2	1.9
FC 74	2421747	2161723	111715	1.86	13.232	2.9	1.9238	4.3	0.18471	3.1	0.735	1092.6	32	1089.4	28.5	1082.9	58	-0.9
FC 75	1590782	1419979.1	278333	1.79	13.206	1.7	1.9262	3.2	0.18457	2.7	0.851	1091.9	28	1090.2	21.5	1086.9	33.9	-0.5
FC 76	1528322	1364225.4	235659	1.89	13.15	2.4	1.9311	3.4	0.18426	2.4	0.711	1090.2	25	1091.9	22.9	1095.3	48.2	0.5
FC 77	2686856	2398367.2	263048	1.82	13.121	1.6	1.957	2.8	0.18631	2.3	0.819	1101.4	23	1100.9	18.6	1099.9	31.8	-0.1
FC 78	4782569	4269062.6	377848	1.52	13.082	1.6	1.9685	2.5	0.18686	1.9	0.758	1104.3	19	1104.8	16.8	1105.7	32.6	0.1
FC 79	2738011	2444029.6	318598	1.88	13.216	2.2	1.9385	3.3	0.18589	2.4	0.74	1099.1	25	1094.5	21.9	1085.4	44.1	-1.3
FC 8	2333847	2083260.9	331933	2.09	13.193	1.7	1.9256	3.2	0.18434	2.7	0.841	1090.6	27	1090	21.5	1088.8	34.8	-0.2
FC 80	4983861	4448741.8	312899	1.84	13.024	1.7	1.9494	2.9	0.18423	2.4	0.812	1090	24	1098.2	19.4	1114.6	33.7	2.2
FC 81	3224636	2878405.5	339839	1.49	13.062	1.6	1.9635	2.9	0.1861	2.4	0.825	1100.2	24	1103.1	19.4	1108.8	32.4	0.8
FC 82	1694365	1512440.3	74277	1.75	13.223	2.2	1.9175	3.1	0.18398	2.1	0.702	1088.7	22	1087.2	20.4	1084.3	43.6	-0.4
FC 83	6230052	5561128.7	9180935	1.8	13.1	2.1	1.9506	2.9	0.18541	2	0.694	1096.5	21	1098.7	19.7	1103	42.2	0.6
FC 84	1407208	1256115.5	7112176	1.71	13.15	2.5	1.9423	3.4	0.18533	2.3	0.686	1096	24	1095.8	22.8	1095.4	49.4	-0.1
FC 85	4249440	3793175.9	301211	1.84	13.089	1.3	1.9605	2.3	0.1862	1.8	0.813	1100.8	19	1102.1	15.2	1104.6	26.4	0.3
FC 86	1802808	1609239.8	466426	1.7	13.037	2.6	1.9425	3.9	0.18376	2.9	0.741	1087.5	29	1095.9	26.2	1112.5	52.3	2.2
FC 87	2228141	1988904.6	152118	1.72	13.309	1.8	1.9436	3.2	0.1877	2.7	0.835	1108.9	27	1096.3	21.5	1071.3	35.4	-3.5
FC 9	5067732	4523607.5	205648	1.83	13.159	1.2	1.9573	2.4	0.18689	2.1	0.857	1104.5	21	1100.9	16.1	1093.9	24.7	-1.0

TABLE S11: Oracle LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	<u>Composition</u>					<u>Ages</u>												
	U	U (norm)	206Pb/	U/Th	206Pb/ 2σ	207Pb/ 2σ	206Pb/ 2σ	Corr.	206Pb/ 2σ	207Pb/ 2σ	206Pb/ 2σ	%						
	(238 cps)	(238 cps)	204Pb		207Pb (%)	235U (%)	238U (%)		238U (Ma)	235U (Ma)	207Pb (Ma)	Disc.						
Oracle no CA Run 1																		
Oracle-1	2243176	2565978	31165	2.3	11.110	1.7	2.9605	3.9	0.23865	3.5	0.9	1379.7	43.8	1397.5	29.6	1424.8	32.1	3.2
Oracle-2	4959082	5672714	51042	10.9	10.999	1.4	3.0273	3.8	0.24159	3.5	0.9	1395.0	44.1	1414.5	28.8	1444.1	26.5	3.4
Oracle-3	1503427	1719777	48861	1.9	10.910	2.2	3.0111	4.2	0.23835	3.6	0.9	1378.1	44.8	1410.4	32.1	1459.6	41.0	5.6
Oracle-4	4221910	4829460	85747	2.6	10.968	1.9	2.8222	3.2	0.22461	2.6	0.8	1306.2	30.4	1361.5	24.1	1449.3	36.9	9.9
Oracle-5	924759	1057836	14803	1.8	11.109	2.3	2.9636	3.8	0.23888	3.1	0.8	1380.9	38.6	1398.3	29.1	1425.1	43.1	3.1
Oracle-6	887154	1014819	19323	1.2	11.057	2.0	3.0292	3.5	0.24303	2.9	0.8	1402.4	36.8	1415.0	26.9	1434.0	37.5	2.2
Oracle-7	2151521	2461133	556715	2.7	11.020	2.1	3.0413	3.7	0.24318	3.0	0.8	1403.2	38.1	1418.1	27.9	1440.5	39.2	2.6
Oracle-8	4895281	5599732	92618	7.6	11.404	2.1	2.9130	4.1	0.24104	3.5	0.9	1392.1	44.4	1385.3	31.1	1374.7	40.2	-1.3
Oracle-9	2035533	2328455	26758	6.1	10.899	2.9	3.2432	4.4	0.25649	3.3	0.7	1471.9	43.3	1467.6	34.2	1461.3	55.7	-0.7
Oracle-10	2163162	2474449	43724	2.2	10.693	4.1	3.2392	4.8	0.25132	2.5	0.5	1445.3	32.8	1466.6	37.5	1497.6	77.7	3.5
Oracle-11	5292762	6054412	72330	5.2	11.021	1.8	2.9662	3.6	0.23719	3.1	0.9	1372.1	38.4	1399.0	27.1	1440.3	33.6	4.7
Oracle-12	1951011	2231770	451965	3.0	11.086	2.0	3.1000	3.2	0.24935	2.5	0.8	1435.1	31.8	1432.7	24.3	1429.1	37.9	-0.4
Oracle-13	2572843	2943085	39324	6.9	11.013	1.8	3.0245	3.4	0.24169	2.9	0.8	1395.5	35.8	1413.8	25.9	1441.6	35.2	3.2
Oracle-14	1555342	1779162	44719	1.3	10.929	2.0	3.0827	3.3	0.24445	2.6	0.8	1409.8	32.9	1428.4	25.1	1456.2	37.8	3.2
Oracle-15	689957	789245	12103	1.8	11.157	2.1	3.0353	4.1	0.24572	3.6	0.9	1416.4	45.4	1416.5	31.7	1416.8	40.5	0.0
Oracle no CA Run 2																		
ORACLE 1	1332275	1253434	414564	1.2	11.08	2.3	3.147	4.3	0.25307	3.7	0.85	1454.3	47.8	1444.3	33.4	1429.7	44.1	-1.7
ORACLE 10	8238010	7750500	273742	6.98	11.05	1.6	3.054	3.1	0.24496	2.6	0.85	1412.4	32.9	1421.3	23.4	1434.5	31.1	1.5
ORACLE 11	4044685	3805328	211041	3.32	11.04	1.6	3.028	2.6	0.24254	2.1	0.8	1399.9	26.3	1414.8	20	1437.2	30.2	2.6
ORACLE 12	1876795	1765730	248470	2.83	11.01	1.5	3.045	2.8	0.24323	2.4	0.85	1403.5	30.2	1419.1	21.6	1442.5	28.9	2.7
ORACLE 13	477156	448918.8	894564	1.74	11.1	2.8	3.079	4.4	0.24795	3.5	0.78	1427.9	44.4	1427.6	34	1427.1	53	-0.1
ORACLE 14	4025433	3787216	392460	4.93	11.09	2.1	3.045	3.3	0.24499	2.6	0.79	1412.6	33.1	1419	25.4	1428.7	39.2	1.1
ORACLE 15	13362374	12571614	428035	21.6	10.89	2	3.06	3.2	0.24173	2.5	0.79	1395.7	31.7	1422.7	24.6	1463.3	37.6	4.6
ORACLE 16	1416842	1332996	1467731	2.44	11.01	2.2	3.05	3.5	0.24364	2.8	0.79	1405.6	35.4	1420.3	27	1442.3	41.1	2.5
ORACLE 17	614036	577698.5	68909	1.49	11.16	2	3.13	3.7	0.25333	3.1	0.84	1455.6	40.1	1440.1	28.4	1417.2	38.8	-2.7
ORACLE 18	1071117	1007730	6839047	1.58	11.2	2.2	3.049	3.4	0.24788	2.6	0.76	1427.5	33.1	1420.1	26	1409	42.2	-1.3
ORACLE 19	932138	876975.9	71272	1.42	11.13	1.9	3.098	4.1	0.2501	3.6	0.88	1439	46.3	1432.2	31.3	1422.2	37	-1.2
ORACLE 2	1488786	1400683	102433	1.74	11.09	1.8	3.041	3.4	0.24469	2.9	0.85	1411	36.3	1417.9	25.8	1428.3	34.2	1.2
ORACLE 20	496693	467299.7	22639	0.81	11.11	2.5	3.101	5	0.24994	4.3	0.86	1438.2	55.9	1432.9	38.6	1425.1	48.6	-0.9
ORACLE 21	1296837	1220093	163020	1.94	11.03	2.1	3.108	3.6	0.24875	2.9	0.82	1432	37.8	1434.7	27.7	1438.8	39.8	0.5
ORACLE 22	1156006	1087596	109347	1.26	11.07	2.2	3.224	4.2	0.259	3.6	0.85	1484.7	47.7	1463	32.7	1431.5	41.9	-3.7
ORACLE 23	1260519	1185924	2529654	1.5	11.03	2	3.175	3.7	0.25411	3	0.83	1459.6	39.6	1451.2	28.2	1438.9	38.9	-1.4
ORACLE 25	2098532	1974345	63855	4.11	11.12	1.8	3.219	3.6	0.2598	3.2	0.87	1488.8	41.9	1461.7	28	1422.5	33.6	-4.7
ORACLE 27	1240288	1166890	72994	1.76	11.02	2.4	3.047	3.4	0.24354	2.5	0.73	1405.1	31.8	1419.5	26.4	1441.2	44.8	2.5
ORACLE 28	1071591	1008176	72433	2.17	11.06	2	3.08	3.2	0.24707	2.5	0.78	1423.4	32.5	1427.8	24.9	1434.3	38.4	0.8
ORACLE 3	2650218	2493383	329363	3.74	11.15	1.6	3.014	3.3	0.24394	2.9	0.87	1407.2	36.1	1411.3	25.1	1417.5	31.3	0.7
ORACLE 30	1194094	1123430	212896	1.72	11.11	2.4	3.102	4.1	0.25011	3.4	0.82	1439	43.9	1433.2	31.8	1424.5	45.3	-1.0
ORACLE 4	1927709	1813631	382871	2.64	11.14	1.6	3.123	3.4	0.25234	3	0.88	1450.6	39	1438.4	26.3	1420.5	31	-2.1

ORACLE 5	3333395	3136131	338334	2.61	11.07	1.8	3.103	2.9	0.24911	2.3	0.79	1433.9	29.8	1433.3	22.6	1432.4	34.7	-0.1
ORACLE 6	946581	890564.2	163860	1.54	11.08	1.9	3.114	3.6	0.25041	3	0.84	1440.6	39	1436.2	27.6	1429.7	37.2	-0.8
ORACLE 7	2131325	2005197	369622	1.68	11.1	1.8	3.039	3.5	0.24483	3	0.86	1411.7	37.9	1417.5	26.5	1426.2	33.6	1.0
ORACLE 8	1164639	1095718	104027	1.34	11.39	2.5	3.025	3.3	0.25002	2.2	0.67	1438.6	28.5	1413.8	25.2	1376.7	47.3	-4.5
ORACLE 9	2357683	2218160	296114	2.51	10.98	1.6	3.188	2.7	0.25403	2.1	0.79	1459.2	27.9	1454.3	20.8	1447.1	31.1	-0.8

Oracle no CA Run 2 (discordant)

ORACLE 24	1034981	973733	142415	3.07	11.16	1.5	3.238	4.6	0.26211	4.4	0.95	1500.6	58.3	1466.2	35.7	1416.7	28.4	-5.9
ORACLE 26	3262174	3069125	627209	4.76	11.17	1.5	2.948	2.9	0.239	2.5	0.86	1381.5	31.2	1394.4	22.1	1414.3	28.7	2.3
ORACLE 29	3831078	3604362	10000	4.91	10	1	0.1	1	0.1	1	0.8	500	1	500	1	500	1	0.0

Composition

Ages

Zircon #	U (238 cps)	U (norm) (238 cps)	206Pb/ 204Pb	U/Th	206Pb/ 2σ	207Pb/ 2σ	206Pb/ 2σ	2σ	Corr.	206Pb/ 2σ	2σ	207Pb/ 2σ	206Pb/ 2σ	%	
					207Pb (%)	235U (%)	238U (%)			238U (Ma)	2σ	235U (Ma)	2σ	207Pb (Ma)	Disc.

Oracle CA Run 1

Oracle-1	1272256	1675280	42437	0.94	11.037	2.0	3.006	4.3	0.24076	3.8	0.889	1390.7	47.4	1409.3	32.5	1437.5	37.3	3.3
Oracle-2	967175	1273556	83148	1.53	11.371	1.8	2.989	3.2	0.24659	2.6	0.825	1420.9	33.5	1404.8	24.2	1380.4	34.5	-2.9
Oracle-3	1106256	1456695	24360	2.25	10.954	1.7	3.095	3.1	0.24601	2.5	0.826	1417.9	32.4	1431.5	23.7	1451.9	33.1	2.3
Oracle-4	1598713	2105151	81698	2.25	11.156	2.3	3.081	3.5	0.24942	2.7	0.766	1435.5	34.9	1428.1	27.2	1417.0	43.6	-1.3
Oracle-5	1028902	1354836	26367	2.49	11.011	2.0	3.069	3.4	0.24516	2.7	0.803	1413.5	34.9	1424.9	26.2	1441.9	38.9	2.0
Oracle-6	1132372	1491083	86016	2.18	11.131	2.1	3.173	2.8	0.25631	1.8	0.658	1471.0	24.1	1450.7	21.5	1421.2	40.1	-3.5
Oracle-7	1190288	1567346	31511	2.01	11.019	2.5	3.046	3.7	0.24352	2.8	0.740	1405.0	34.9	1419.2	28.6	1440.5	47.9	2.5
Oracle-8	683726	900316	18724	2.54	11.068	2.5	3.006	3.3	0.24142	2.1	0.645	1394.1	26.5	1409.2	25.0	1432.0	47.8	2.7
Oracle-10	982157	1293284	47671	2.37	11.188	2.1	2.915	4.2	0.23661	3.6	0.870	1369.0	44.8	1385.7	31.6	1411.5	39.4	3.0
Oracle-11	791501	1042231	24921	1.22	11.230	2.4	3.065	4.2	0.24977	3.4	0.820	1437.3	44.4	1424.1	32.2	1404.4	46.0	-2.3
Oracle-12	1499438	1974428	14008	1.33	11.053	2.4	3.141	3.2	0.25191	2.2	0.680	1448.3	28.5	1442.8	24.9	1434.7	45.2	-0.9
Oracle-13	4950280	6518424	34667	3.97	11.044	1.5	3.103	2.9	0.24866	2.5	0.851	1431.6	31.9	1433.4	22.4	1436.2	29.2	0.3
Oracle-14	856074	1127261	6748	1.97	11.273	1.8	2.967	3.7	0.24266	3.2	0.873	1400.5	40.6	1399.2	28.1	1397.1	34.6	-0.2

Oracle CA Run 1 (discordant)

Oracle-9	1385662	1824610	24283	2.49	10.270	2.1	3.524	4.5	0.26262	4.0	0.887	1503.3	53.8	1532.7	35.8	1573.5	39.1	4.5
Oracle-15	508335	669364	12576	1.21	12.001	9.6	4.068	60.8	0.35420	60.0	0.987	1954.6	1013.8	1647.9	505.5	1276.1	187.8	-53.2

Oracle CA Run 2

Oracle 10	2254257	2012216	88057	1.35	11.08	1.6	3.088	2.7	0.24822	2.2	0.8	1429.3	27.8	1429.8	20.8	1430.6	31.1	0.1
Oracle 11	2833008	2528827	339436	0.66	10.94	1.9	3.098	4.5	0.24592	4.1	0.91	1417.4	52.6	1432.1	34.8	1454	35.7	2.5
Oracle 12	1786809	1594959	98315	2.48	11.07	2.1	3.169	3.1	0.2545	2.3	0.74	1461.7	30	1449.7	23.9	1432.1	39.8	-2.1
Oracle 13	1696206	1514084	203323	2.94	11	2.9	3.206	4.1	0.25585	2.9	0.71	1468.6	38.2	1458.6	31.9	1444	55.6	-1.7
Oracle 14	1779481	1588417	163346	2.72	11.22	2	3.135	2.7	0.25518	1.7	0.65	1465.1	22.7	1441.4	20.6	1406.5	38.9	-4.2
Oracle 15	1725260	1540018	384353	1.54	10.98	2.1	3.119	2.9	0.24839	2.1	0.7	1430.1	26.3	1437.4	22.5	1448.2	39.7	1.2
Oracle 16	2053829	1833309	797585	2.45	11.12	2.1	3.114	3	0.2513	2.1	0.71	1445.2	27.7	1436.2	23.1	1423	40.5	-1.6
Oracle 17	1664465	1485751	87609	2.6	11.02	2	3.205	3.4	0.2562	2.7	0.81	1470.4	35.9	1458.5	26	1441.1	37.2	-2.0
Oracle 18	1577175	1407833	349913	1.05	10.98	1.6	3.238	3.6	0.25783	3.2	0.89	1478.7	42.9	1466.2	28.2	1448.2	31.1	-2.1
Oracle 19	1901334	1697187	504060	0.86	11.01	1.7	3.214	3.2	0.25663	2.7	0.85	1472.6	36.1	1460.4	25	1442.8	32.3	-2.1
Oracle 2	1082168	965975.2	140566	1.79	11.05	1.7	3.061	3.3	0.24541	2.8	0.85	1414.8	36.1	1422.9	25.5	1435.1	33.2	1.4
Oracle 20	1486503	1326897	126079	1.33	11.02	1.8	3.197	3.4	0.25559	2.9	0.85	1467.2	37.6	1456.5	26	1440.8	33.5	-1.8
Oracle 21	997073	890016.9	115425	1.5	11.14	2.5	3.11	3.9	0.2514	3	0.77	1445.7	39.2	1435.1	30.1	1419.5	47.5	-1.8

Oracle 22	743825	663960.2	35759	0.9	11.12	2.8	3.227	4.6	0.26032	3.6	0.8	1491.5	48.4	1463.6	35.4	1423.4	52.8	-4.8
Oracle 23	1012630	903903.5	121660	2.08	10.85	2	3.273	3.2	0.25767	2.5	0.78	1477.9	32.7	1474.6	24.6	1469.8	37.3	-0.6
Oracle 24	1062094	948056.5	167415	1.18	11.15	2	3.008	4.1	0.24337	3.6	0.88	1404.2	46	1409.7	31.6	1418	37.6	1.0
Oracle 25	673679	601345.8	2939378	0.51	11.1	3	3.038	4.8	0.24461	3.8	0.78	1410.6	47.5	1417.1	36.8	1426.9	57.6	1.1
Oracle 26	4426977	3951651	169703	2.08	10.96	1.8	3.065	2.7	0.24363	2	0.74	1405.5	25.4	1424	20.8	1451.7	34.8	3.2
Oracle 27	1414569	1262686	214142	0.91	10.96	1.7	3.077	2.7	0.24461	2.1	0.77	1410.6	26.6	1427	20.9	1451.5	33.2	2.8
Oracle 28	5102582	4554716	582142	4.81	10.9	1.6	3.155	2.7	0.2495	2.1	0.8	1435.9	27.3	1446.3	20.5	1461.6	30.4	1.8
Oracle 29	3832173	3420711	696608	0.45	10.95	1.8	3.164	2.7	0.25131	2.1	0.76	1445.2	26.8	1448.4	21.1	1453.1	34	0.5
Oracle 3	2283386	2038218	358709	1.32	10.9	2.2	3.169	3.6	0.25059	2.9	0.79	1441.5	37.1	1449.7	28	1461.6	42.1	1.4
Oracle 30	1485222	1325753	122325	0.85	11.07	2.1	3.265	3.5	0.26218	2.9	0.81	1501	38.6	1472.8	27.5	1432.4	39.3	-4.8
Oracle 4	1825028	1629074	58934	1.74	11.04	1.7	3.114	2.7	0.2494	2.1	0.77	1435.4	26.9	1436	20.8	1437	32.7	0.1
Oracle 5	1758545	1569729	1191928	1.88	10.92	2	3.135	3.3	0.24846	2.6	0.8	1430.5	33.5	1441.2	25.2	1457	37.5	1.8
Oracle 6	1161277	1036590	441963	2.2	10.99	2.1	3.128	4.1	0.24951	3.6	0.86	1435.9	45.8	1439.6	31.7	1444.9	39.5	0.6
Oracle 7	2047536	1827691	300360	5.01	11.07	1.9	3.142	2.9	0.25229	2.2	0.75	1450.3	28.1	1443	22.3	1432.3	36.7	-1.3
Oracle 8	2202259	1965802	2224447	2.32	10.96	1.5	3.122	2.6	0.2482	2.1	0.82	1429.2	27.1	1438.1	19.9	1451.3	28.2	1.5
Oracle 9	830030	740909.3	168937	1.42	11.14	1.9	3.171	3.8	0.25618	3.2	0.86	1470.2	42.6	1450.1	29	1420.6	36.2	-3.5

Oracle CA Run 2 (discordant)

Oracle 1	110749	98857.83	5000	1.15	14.5	8.7	1.421	11	0.14945	7	0.63	897.9	58.6	897.6	66.3	896.8	179	-0.1
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TABLE S12: QGNG LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition										Ages							
	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb	2σ (%)	207Pb/235U	2σ (%)	206Pb/238U	2σ (%)	Corr.	206Pb/238U (Ma)	2σ (Ma)	207Pb/235U (Ma)	2σ (Ma)	206Pb/238U (Ma)	2σ (Ma)	% Disc.
QGNG no CA Run 1																		
QGNG-1	3246504	3713689	57029	1.12	8.813	1.8	4.8319	3.4	0.30896	2.9	0.842	1735.6	43.4	1790.5	28.5	1855.0	33.1	6.4
QGNG-2	1163394	1330811	39464	1.25	9.138	2.3	4.8139	4.2	0.31917	3.5	0.829	1785.7	54.2	1787.3	35.2	1789.2	42.6	0.2
QGNG-3	3644589	4169060	42406	1.10	8.745	1.7	5.1650	3.1	0.32771	2.6	0.840	1827.3	41.3	1846.9	26.3	1869.0	30.3	2.2
QGNG-4	1005887	1150639	64534	1.31	8.987	2.1	4.9519	4.1	0.32292	3.6	0.867	1804.0	56.2	1811.2	34.8	1819.4	37.3	0.9
QGNG-5	1216017	1391007	23316	1.21	8.749	1.8	4.9994	2.8	0.31739	2.1	0.755	1777.0	32.3	1819.2	23.3	1868.0	32.6	4.9
QGNG-6	4219539	4826748	58369	1.16	8.888	1.7	5.0126	3.7	0.32327	3.3	0.883	1805.7	51.9	1821.5	31.6	1839.5	31.7	1.8
QGNG-7	877342	1003595	19795	1.38	8.758	1.9	4.9661	3.4	0.31556	2.8	0.817	1768.0	42.7	1813.6	28.6	1866.3	35.2	5.3
QGNG-9	1950160	2230796	20907	1.68	8.660	1.7	5.1931	3.5	0.32631	3.1	0.881	1820.5	49.5	1851.5	30.2	1886.5	30.2	3.5
QGNG-10	9747769	11150512	221853	1.82	9.110	1.4	5.0932	3.3	0.33668	3.0	0.910	1870.7	49.2	1835.0	28.3	1794.7	25.1	-4.2
QGNG-11	1265111	1447166	11409	1.00	8.918	1.9	4.9928	3.2	0.32306	2.6	0.803	1804.7	40.5	1818.1	27.1	1833.5	34.6	1.6
QGNG-12	3365759	3850106	267981	1.09	8.762	2.0	5.1979	3.7	0.33047	3.1	0.841	1840.6	49.4	1852.3	31.2	1865.3	35.8	1.3
QGNG-13	2211965	2530275	34166	1.34	8.672	2.0	5.2249	3.2	0.32875	2.5	0.779	1832.3	40.4	1856.7	27.7	1884.1	36.7	2.7
QGNG-14	3098383	3544253	121544	1.16	8.857	2.7	5.2014	5.3	0.33428	4.5	0.853	1859.1	72.5	1852.8	44.8	1845.8	49.7	-0.7
QGNG-15	1588424	1817005	25729	1.82	8.931	1.6	5.0699	2.9	0.32854	2.5	0.840	1831.3	39.2	1831.1	24.8	1830.8	28.7	0.0
QGNG no CA Run 1 (discordant)																		
QGNG-8	1548166	1770953	36247	0.87	8.952	2.4	5.9582	8.9	0.38702	8.6	0.963	2109.0	154.1	1969.8	77.4	1826.5	43.3	-15.5
QGNG no CA Run 2																		
QGNG 10	6132226	5769332.65	2223097	1.54	8.969	1.4	5.0461	2.2	0.32838	1.8	0.784	1830.5	28.1	1827.1	19	1823.2	25.3	-0.4
QGNG 11	1220741	1148499.89	385964	1.87	8.891	1.6	5.2617	3.3	0.33944	2.9	0.88	1884	48	1862.7	28.5	1839	28.7	-2.4
QGNG 12	2126583	2000735.9	239780	1.2	8.917	1.8	5.2128	2.7	0.33729	2	0.753	1873.6	32.8	1854.7	22.8	1833.5	31.9	-2.2
QGNG 13	3612232	3398467.05	528818	1.1	8.949	1.3	5.0003	2.3	0.32467	1.9	0.827	1812.5	30.3	1819.4	19.6	1827.2	23.6	0.8
QGNG 14	1943258	1828259.72	1102870	1.3	8.883	2	5.1431	3.1	0.33149	2.3	0.755	1845.6	37.2	1843.3	26.1	1840.6	36.5	-0.3
QGNG 15	1648556	1550997.62	444510	1.18	8.904	1.7	5.1101	3.1	0.33015	2.6	0.842	1839.1	41.8	1837.8	26.3	1836.3	30.3	-0.2
QGNG 16	1943449	1828439.42	381002	1.88	8.954	1.6	5.0382	3.4	0.32732	2.9	0.871	1825.4	46.4	1825.8	28.4	1826.2	29.9	0.0
QGNG 18	2313308	2176410.88	719386	1.76	8.776	2	5.1016	3.8	0.32486	3.2	0.857	1813.4	51.3	1836.4	32.2	1862.5	35.3	2.6
QGNG 19	2192182	2062452.88	355420	1.18	8.851	1.3	5.1893	2.8	0.33325	2.4	0.877	1854.1	39.5	1850.9	23.8	1847.2	24.3	-0.4
QGNG 2	2038736	1918087.52	486905	1	8.982	1.6	5.0948	3.9	0.33203	3.5	0.907	1848.2	56.8	1835.2	33.1	1820.5	29.8	-1.5
QGNG 20	2142148	2015379.8	3653435	1.01	8.891	1.7	5.1652	3.1	0.33323	2.6	0.828	1854	41.4	1846.9	26.4	1838.9	31.5	-0.8
QGNG 21	1270830	1195624.72	393581	1.28	8.897	1.9	4.9455	4	0.31925	3.4	0.871	1786.1	53.7	1810.1	33.4	1837.8	35.2	2.8
QGNG 23	1851462	1741896.04	243830	1.05	8.821	1.7	5.155	3.1	0.32993	2.6	0.834	1838	41.4	1845.2	26.4	1853.3	30.9	0.8
QGNG 24	1648561	1551002.33	96177	0.98	8.818	1.4	5.0729	3.3	0.32458	3	0.91	1812.1	47.2	1831.6	27.9	1853.8	24.7	2.2
QGNG 25	2847847	2679316.89	339325	1.06	8.915	1.6	5.0438	2.9	0.32626	2.5	0.844	1820.2	39.3	1826.7	24.9	1834.1	28.5	0.8
QGNG 26	5267264	4955557.44	729667	1.16	8.915	1.4	5.0483	3.1	0.32655	2.7	0.891	1821.7	43.5	1827.5	26.1	1834.1	25.4	0.7
QGNG 27	3877303	3647851.66	216165	1.16	8.876	1.4	5.0535	2.7	0.32545	2.3	0.856	1816.3	37.1	1828.3	23.2	1842.1	25.7	1.4
QGNG 28	2323152	2185672.33	318375	1.64	8.928	1.4	5.1032	2.4	0.33059	2	0.812	1841.2	31.7	1836.6	20.7	1831.4	25.8	-0.5
QGNG 29	1765357	1660886.56	590732	1.19	8.847	1.2	5.1463	2.7	0.33036	2.4	0.899	1840.1	38.9	1843.8	23	1847.9	21.4	0.4
QGNG 3	1965810	1849477.14	203937	1.03	8.876	1	5.082	2.8	0.32729	2.6	0.931	1825.2	42	1833.1	24.1	1842.1	18.8	0.9
QGNG 30	2415192	2272265.58	236388	0.97	8.963	1.3	5.0711	2.8	0.32979	2.5	0.877	1837.4	39.4	1831.3	23.8	1824.4	24.5	-0.7

QGNG 4	2696459	2536887.74	389963	1.04	8.938	1.7	5.0775	2.8	0.32931	2.2	0.798	1835	35.4	1832.4	23.6	1829.3	30.4	-0.3
QGNG 5	4908661	4618175.87	634517	1.17	8.883	1.5	5.1002	2.9	0.32872	2.5	0.854	1832.2	39.5	1836.1	24.6	1840.6	27.3	0.5
QGNG 6	4038957	3799939.28	1510803	1.09	8.975	1.4	5.0787	2.7	0.33074	2.3	0.859	1842	36.7	1832.6	22.6	1821.9	24.7	-1.1
QGNG 7	2095970	1971934.52	5071078	1.01	8.896	1.8	5.1209	3.4	0.33055	2.9	0.854	1841.1	46.1	1839.6	28.6	1837.9	31.7	-0.2
QGNG 8	2888410	2717479.45	295038	1.11	8.94	1.3	5.0836	2.6	0.32978	2.3	0.872	1837.3	36.8	1833.4	22.4	1828.9	23.5	-0.5
QGNG 9	1650978	1553276.29	263603	1.2	8.898	1.7	5.1326	3.3	0.3314	2.8	0.862	1845.1	45.5	1841.5	27.9	1837.4	30.2	-0.4

QGNG no CA Run 2 (discordant)

QGNG 17	3594349	3381642.33	289210	4.15	8.997	1.7	4.746	3.5	0.30982	3.1	0.872	1739.8	47	1775.4	29.6	1817.4	31.4	4.3
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Composition

Ages

Zircon	U	U (norm)	206Pb/	U/Th	206Pb/	2 σ	207Pb/	2 σ	206Pb/	2 σ	Corr.	206Pb/	2 σ	207Pb/	2 σ	206Pb/	2 σ	%
#	(238 cps)	(238 cps)	204Pb		207Pb	(%)	235U	(%)	238U	(%)		238U	(Ma)	235U	(Ma)	207Pb	(Ma)	Disc.

QGNG CA Run 1

QGNG-1	1296464	1707156	29037	0.91	8.786	1.6	5.1309	3.1	0.32710	2.6	0.850	1824.3	41.5	1841.2	26.1	1860.4	29.3	1.9
QGNG-2	1972067	2596775	31076	0.94	8.706	1.7	5.2726	3.9	0.33306	3.5	0.898	1853.2	56.0	1864.4	33.1	1877.0	30.8	1.3
QGNG-3	1591100	2095127	35397	0.96	8.795	2.1	5.2086	3.7	0.33239	3.1	0.827	1850.0	49.1	1854.0	31.4	1858.5	37.4	0.5
QGNG-4	1601975	2109447	21124	0.90	8.677	1.7	5.4000	2.7	0.33996	2.1	0.777	1886.5	34.8	1884.9	23.5	1883.0	31.1	-0.2
QGNG-5	1571752	2069649	40009	0.91	8.737	1.5	5.1811	3.3	0.32844	3.0	0.899	1830.8	47.6	1849.5	28.3	1870.6	26.2	2.1
QGNG-6	1496707	1970832	33686	0.87	8.777	2.2	5.2402	3.7	0.33373	3.0	0.806	1856.4	47.8	1859.2	31.3	1862.2	39.3	0.3
QGNG-7	1552118	2043796	225276	0.89	8.891	2.0	5.3316	3.6	0.34396	2.9	0.818	1905.7	48.1	1873.9	30.4	1838.9	37.1	-3.6
QGNG-8	1540773	2028858	32251	0.93	8.903	1.9	5.2285	3.6	0.33774	3.0	0.842	1875.8	49.5	1857.3	30.8	1836.6	35.3	-2.1
QGNG-9	1610543	2120730	49163	1.91	8.740	1.9	5.1309	3.3	0.32537	2.7	0.818	1815.9	42.8	1841.2	28.1	1870.0	34.3	2.9
QGNG-10	1333028	1755304	67487	0.89	8.971	1.7	5.0897	3.1	0.33129	2.6	0.837	1844.6	42.1	1834.4	26.6	1822.8	31.1	-1.2
QGNG-11	1689282	2224411	463786	1.04	8.805	2.0	5.3309	3.5	0.34059	2.8	0.824	1889.5	46.6	1873.8	29.5	1856.5	35.4	-1.8
QGNG-12	1734017	2283317	190556	0.99	9.000	7.5	5.2330	12.3	0.34173	9.7	0.788	1895.0	158.7	1858.0	104.6	1816.8	137.0	-4.3
QGNG-13	3354364	4416956	125374	1.05	8.854	1.6	5.1468	3.2	0.33063	2.7	0.868	1841.5	43.9	1843.9	26.9	1846.6	28.3	0.3
QGNG-14	2007478	2643405	268624	1.11	8.947	1.9	5.0102	4.2	0.32525	3.8	0.889	1815.3	59.7	1821.0	35.9	1827.6	35.3	0.7
QGNG-15	942935	1241636	139272	1.50	8.927	1.8	5.1505	3.9	0.33362	3.5	0.886	1855.9	56.3	1844.5	33.5	1831.6	33.2	-1.3

QGNG CA Run 2

QGNG 1	2046813	1827045.84	242394	0.91	8.852	1.7	5.0799	3.2	0.32627	2.7	0.844	1820.3	42.2	1832.8	26.8	1846.9	30.6	1.4
QGNG 10	4265785	3807765.91	363807	1.04	8.659	2.1	5.2189	3.3	0.32791	2.5	0.763	1828.2	40	1855.7	28.1	1886.6	38.3	3.1
QGNG 11	1648727	1471702.5	295185	1.26	8.892	2.3	5.087	3.4	0.32822	2.5	0.742	1829.7	39.9	1833.9	28.6	1838.7	40.9	0.5
QGNG 12	3393606	3029233.12	303681	1.03	8.786	1.9	5.1751	2.7	0.32991	1.9	0.719	1837.9	31	1848.5	22.9	1860.4	33.8	1.2
QGNG 13	2518908	2248451.81	847690	0.96	8.81	2	5.1874	3.8	0.33161	3.2	0.846	1846.2	51	1850.6	31.9	1855.4	36.1	0.5
QGNG 14	2144307	1914071.87	281250	1.22	8.72	1.7	5.2202	2.5	0.33031	1.9	0.734	1839.9	29.7	1855.9	21.5	1873.9	30.9	1.8
QGNG 15	1832585	1635819.59	351882	1.16	8.807	1.9	5.1315	3.8	0.32792	3.3	0.874	1828.3	53.3	1841.3	32.5	1856.1	33.6	1.5
QGNG 16	1212251	1082091.11	77864	1.28	8.937	2.7	5.161	3.8	0.33468	2.7	0.708	1861	43.7	1846.2	32.4	1829.6	48.8	-1.7
QGNG 17	916262	817882.571	46506	1.6	8.825	2	5.1902	3	0.33235	2.2	0.741	1849.8	36	1851	25.7	1852.4	36.6	0.1
QGNG 18	970373	866183.651	123560	1.5	8.922	2.3	5.0714	3.8	0.32832	3.1	0.803	1830.2	48.9	1831.3	32.4	1832.6	41.2	0.1
QGNG 19	2035551	1816993.05	1974075	0.93	8.777	1.7	5.1865	2.8	0.3303	2.2	0.8	1839.8	35.4	1850.4	23.5	1862.3	30	1.2
QGNG 2	2054414	1833830.72	293341	0.87	8.78	1.7	5.1398	2.8	0.32745	2.2	0.796	1826	35.6	1842.7	23.9	1861.6	30.8	1.9
QGNG 20	3100320	2767437.36	382626	1.44	8.831	1.8	5.1835	2.9	0.33214	2.3	0.787	1848.7	36.2	1849.9	24.4	1851.2	31.9	0.1
QGNG 21	2025320	1807860.56	182898	1.34	8.875	1.9	5.1476	3.5	0.33147	3	0.849	1845.5	48.1	1844	30	1842.3	33.7	-0.2
QGNG 22	1267544	1131447.28	223726	0.96	8.798	2.2	5.1757	3.2	0.33041	2.4	0.739	1840.4	38.4	1848.6	27.6	1857.9	39.5	0.9

QGNG 23	1584578	1414441.21	79324	1.2	8.816	2	5.1446	3.4	0.3291	2.7	0.797	1834	42.9	1843.5	28.7	1854.2	36.8	1.1
QGNG 24	1958915	1748585.49	4599350	0.96	8.78	2.1	5.146	3.8	0.32784	3.1	0.83	1827.9	49.7	1843.7	32	1861.6	37.9	1.8
QGNG 25	2891614	2581140.21	388013	0.98	8.695	1.9	5.1785	3.2	0.32673	2.6	0.805	1822.5	41.3	1849.1	27.5	1879.1	34.6	3.0
QGNG 26	1643723	1467235.78	701467	1.08	8.712	2.2	5.1748	4.6	0.3271	4	0.877	1824.3	63.5	1848.5	38.8	1875.8	39.5	2.7
QGNG 27	2383440	2127529.06	320002	1.03	8.749	2	5.173	3.3	0.32838	2.6	0.791	1830.5	41.6	1848.2	28.1	1868.1	36.5	2.0
QGNG 28	2342551	2091030.33	463064	0.96	8.738	2.6	5.1578	4	0.32703	3	0.752	1824	47.7	1845.7	34	1870.2	47.5	2.5
QGNG 29	1366306	1219605.16	398650	1.12	8.791	2.1	5.1155	3.4	0.32631	2.7	0.79	1820.5	43.1	1838.7	29.3	1859.3	38.2	2.1
QGNG 3	1215530	1085018.04	73003	1.71	8.864	1.8	5.0454	3.3	0.3245	2.8	0.847	1811.6	44.3	1827	28	1844.5	31.8	1.8
QGNG 30	1888941	1686124.63	2296251	0.9	8.754	2.2	5.1148	3.7	0.3249	2.9	0.794	1813.6	45.9	1838.6	31.1	1866.9	40.1	2.9
QGNG 4	1693446	1511620	581358	0.95	8.703	1.6	5.1439	2.6	0.32485	2.1	0.796	1813.3	33.1	1843.4	22.4	1877.5	28.7	3.4
QGNG 5	2427761	2167091.3	133378	0.95	8.771	1.6	5.1565	2.9	0.32816	2.4	0.833	1829.4	38.9	1845.5	24.9	1863.6	29.3	1.8
QGNG 6	2432919	2171695.48	247548	0.97	8.812	1.9	5.1355	3.1	0.32835	2.5	0.804	1830.4	40	1842	26.5	1855.1	33.6	1.3
QGNG 7	2181625	1947383.02	1161604	0.9	8.865	2.2	5.161	3.7	0.33197	2.9	0.796	1847.9	46.8	1846.2	31.1	1844.3	40.1	-0.2
QGNG 8	4399126	3926790.03	386689	1.41	8.72	2.3	5.1169	3.3	0.32375	2.4	0.72	1808	37.5	1838.9	28.1	1874.1	41.3	3.5
QGNG 9	3570015	3186701.02	1439528	1.04	8.838	2.2	5.1751	3.3	0.33186	2.5	0.744	1847.4	39.5	1848.5	28.1	1849.8	39.9	0.1

TABLE S13: OG1 LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition										Ages							
	U (238 cps)	U (norm) (238 cps)	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.
OG1 no CA Run 1																		
OG-1-1	650431.2	744031	31041	1.60	3.371	1.3	29.9557	2.8	0.73268	2.5	0.892	3543.4	68.7	3485.4	27.8	3452.2	19.8	-2.6
OG-1-2	1472730	1684662	36470	1.66	3.287	1.6	29.6563	3.0	0.70724	2.6	0.843	3448.0	68.4	3475.5	29.9	3491.3	25.3	1.2
OG-1-3	1444224	1652054	389311	0.99	3.331	1.3	29.3484	3.0	0.70940	2.6	0.892	3456.2	70.5	3465.2	29.0	3470.5	20.6	0.4
OG-1-4	1419224	1623456	40292	1.60	3.373	1.6	29.5789	3.1	0.72391	2.7	0.850	3510.7	71.9	3472.9	30.7	3451.2	25.5	-1.7
OG-1-5	1097197	1255089	81494	1.21	3.345	1.2	29.0931	2.9	0.70611	2.7	0.908	3443.8	71.0	3456.7	28.8	3464.1	19.0	0.6
OG-1-6	923216	1056071	38584	1.13	3.331	1.6	30.5919	3.0	0.73928	2.5	0.846	3567.9	68.4	3506.0	29.0	3470.8	24.3	-2.8
OG-1-7	949761.5	1086436	56194	1.12	3.320	1.7	29.1868	3.1	0.70315	2.6	0.843	3432.6	69.6	3459.8	30.5	3475.6	25.9	1.2
OG-1-8	1299107	1486053	46190	2.12	3.360	1.8	29.1605	3.5	0.71084	3.0	0.866	3461.6	81.6	3458.9	34.5	3457.4	27.2	-0.1
OG-1-9	1244193	1423238	32896	0.97	3.350	1.6	30.2669	3.4	0.73578	2.9	0.875	3554.9	80.3	3495.5	33.0	3461.6	25.2	-2.7
OG-1-10	1048424	1199297	34149131	1.78	3.335	1.7	29.2525	3.0	0.70782	2.5	0.828	3450.2	66.5	3462.0	29.5	3468.9	26.1	0.5
OG-1-11	1087573	1244079	56427	1.03	3.382	1.6	29.4470	3.1	0.72260	2.7	0.862	3505.8	71.9	3468.5	30.3	3447.1	24.2	-1.7
OG-1-12	946857.6	1083114	39078	1.24	3.342	1.7	29.1036	3.2	0.70576	2.8	0.857	3442.5	73.4	3457.0	31.5	3465.5	25.6	0.7
OG-1-13	721008.1	824764	490223	1.82	3.381	1.8	27.9712	3.7	0.68619	3.3	0.878	3368.1	85.6	3418.1	36.5	3447.5	27.6	2.3
OG-1-14	1198792	1371303	106206	0.96	3.360	1.3	30.0052	3.0	0.73141	2.7	0.897	3538.7	74.1	3487.0	29.8	3457.4	20.7	-2.4
OG-1-15	2049650	2344603	82184	0.78	3.361	2.4	30.0373	4.1	0.73247	3.3	0.815	3542.6	90.5	3488.0	40.0	3456.8	36.6	-2.5
OG1 no CA Run 2																		
OG-1 1	1771343	1666518.3	1456089	1.21	3.503	1.7	27.0289	3.4	0.68709	2.9	0.861	3371.5	77.2	3384.5	33.4	3392.2	27	0.6
OG-1 10	1743997	1640790.6	732527	1.08	3.448	1.7	27.9491	3.3	0.69928	2.9	0.862	3417.9	75.9	3417.3	32.6	3416.9	26.2	0.0
OG-1 11	1208053	1136562.7	189122	1.29	3.498	1.6	26.5579	3.6	0.67403	3.2	0.898	3321.4	84	3367.3	35.3	3394.7	24.7	2.2
OG-1 12	1749856	1646302.9	12448337	0.81	3.488	1.8	28.6768	3.7	0.72568	3.2	0.878	3517.3	88	3442.5	36.3	3399.3	27.6	-3.5
OG-1 13	1962948	1846784.5	333264	1.07	3.5	1.7	27.4592	3.1	0.69725	2.5	0.823	3410.2	66.7	3400	30	3393.9	27	-0.5
OG-1 14	1176969	1107318.2	1972914	2.04	3.425	2.1	28.3406	4	0.70441	3.4	0.853	3437.4	90.8	3431	39.2	3427.2	32.4	-0.3
OG-1 15	1251234	1177188.4	2672274	1.33	3.44	1.7	27.7134	3.1	0.69169	2.6	0.839	3389	68	3409	30.1	3420.8	26	0.9
OG-1 16	1349273	1269425.6	7947051	2.07	3.435	2.1	27.9595	4.1	0.69686	3.5	0.851	3408.7	91.6	3417.7	39.9	3422.9	33.2	0.4
OG-1 17	1291939	1215484.5	1033510	1.26	3.46	2	27.7295	3.6	0.69615	3	0.834	3406	79	3409.6	35.1	3411.6	30.7	0.2
OG-1 18	1221882	1149573.4	1644932	1.52	3.42	1.9	28.4781	3.4	0.70672	2.8	0.828	3446.1	75.1	3435.7	33.3	3429.6	29.6	-0.5
OG-1 19	1274059	1198662.6	283161	1.57	3.43	1.5	28.5432	2.9	0.71046	2.5	0.852	3460.2	65.7	3437.9	28.2	3425	23.5	-1.0
OG-1 2	692195	651232.23	392504	1.7	3.413	1.9	28.9708	3.9	0.71737	3.4	0.87	3486.2	90.9	3452.5	38.1	3433.1	29.8	-1.5
OG-1 20	1364062	1283339.4	8027831	2.32	3.466	1.5	28.0342	3.2	0.70508	2.8	0.878	3439.9	74.4	3420.3	31.2	3408.8	23.7	-0.9
OG-1 21	1494472	1406032	320372	1.28	3.48	1.5	27.522	3.1	0.6949	2.7	0.882	3401.3	72.3	3402.2	30.4	3402.7	22.8	0.0
OG-1 22	2374689	2234159.5	244000	1.05	3.506	1.5	27.2082	2.9	0.69224	2.5	0.856	3391.2	65.8	3391	28.5	3390.9	23.4	0.0
OG-1 23	1043721	981955.6	1129186	1.86	3.443	1.6	28.2374	3	0.70537	2.6	0.851	3441	68.4	3427.4	29.6	3419.4	24.6	-0.6
OG-1 24	1538701	1447643.6	220508	0.96	3.468	2.2	27.7448	4	0.69814	3.4	0.833	3413.6	89.1	3410.1	39.6	3408.1	34.8	-0.2
OG-1 25	2373033	2232601.5	176861	0.93	3.542	1	26.768	2.1	0.68799	1.9	0.873	3375	48.8	3375	20.8	3375	16.2	0.0
OG-1 26	1587268	1493336.5	415488	1.15	3.483	1.4	27.4646	2.6	0.69414	2.2	0.837	3398.4	58.4	3400.2	25.9	3401.2	22.5	0.1
OG-1 27	1044399	982593.47	254817	2.97	3.451	1.8	27.3878	3	0.68588	2.4	0.793	3366.9	62.7	3397.4	29.5	3415.5	28.6	1.4
OG-1 28	1319513	1241426.8	314606	1.85	3.462	1.7	27.9509	3.1	0.70215	2.6	0.841	3428.8	70.1	3417.4	30.7	3410.7	26.4	-0.5
OG-1 29	1231652	1158765.2	11011109	1.43	3.441	2	28.2678	3.2	0.70578	2.5	0.79	3442.5	68	3428.4	31.7	3420.2	30.8	-0.7

OG-1 3	1579605	1486127	173329	1.35	3.481	1.7	27.3708	3.5	0.69135	3	0.866	3387.8	78.9	3396.8	33.9	3402.2	26.9	0.4
OG-1 30	1367476	1286551.4	364464	2	3.459	2	27.5723	2.8	0.69193	1.9	0.702	3390	51.1	3404	27.1	3412.3	30.6	0.7
OG-1 4	1065825	1002751.5	1140402	1.88	3.441	1.5	28.094	3.7	0.70149	3.3	0.908	3426.3	88.8	3422.4	36.1	3420.1	24	-0.2
OG-1 5	2424363	2280893.9	14853207	0.98	3.569	2	27.2014	3.6	0.70449	3	0.829	3437.7	79.2	3390.7	35.1	3363.1	31.3	-2.2
OG-1 6	2121288	1995754.3	790308	0.96	3.515	1.5	26.9445	3.2	0.68724	2.8	0.881	3372.1	74.8	3381.4	31.7	3387	23.8	0.4
OG-1 7	1863535	1753254.6	3914788	1.2	3.508	2	27.2128	3.3	0.69264	2.6	0.791	3392.7	68.2	3391.2	32	3390.2	31.2	-0.1
OG-1 8	1852991	1743334.6	541263	1.14	3.501	1.8	27.4365	3.7	0.69703	3.3	0.877	3409.4	86.1	3399.2	36.3	3393.2	27.8	-0.5
OG-1 9	1067249	1004091.3	192062	1.22	3.45	1.8	27.7848	3.7	0.6955	3.2	0.871	3403.6	85.5	3411.5	36.4	3416.2	28.4	0.4

Composition

Ages

Zircon	U	U (norm)	206Pb/	U/Th	206Pb/	2σ	207Pb/	2σ	206Pb/	2σ	Error	206Pb/	2σ	207Pb/	2σ	206Pb/	2σ	%
#	(238 cps)	(238 cps)	204Pb		207Pb	(%)	235U	(%)	238U	(%)	Corr.	238U	(Ma)	235U	(Ma)	207Pb	(Ma)	Disc.

OG1 CA Run 1

OG-1-1	1110329	1462057	72506	1.08	3.276	1.8	28.6802	3.1	0.68169	2.5	0.815	3350.9	65.6	3442.6	30.2	3496.5	27.6	4.2
OG-1-2	1070087	1409068	77233	2.00	3.297	1.9	29.7917	3.3	0.71275	2.7	0.807	3468.8	71.1	3480.0	32.3	3486.4	30.0	0.5
OG-1-3	1032081	1359022	31715	1.01	3.295	2.0	29.3078	4.3	0.70073	3.8	0.881	3423.4	101.2	3463.9	42.5	3487.4	31.7	1.8
OG-1-4	1179100	1552614	24627	1.02	3.283	1.8	29.7451	3.8	0.70849	3.3	0.877	3452.8	87.9	3478.4	36.8	3493.2	27.9	1.2
OG-1-5	1305811	1719464	63669	0.87	3.288	1.7	28.7367	3.5	0.68558	3.1	0.880	3365.7	80.7	3444.6	34.4	3490.7	25.8	3.6
OG-1-6	936360.5	1232980	43529	1.07	3.293	1.8	29.4500	3.3	0.70375	2.8	0.835	3434.9	73.7	3468.6	32.6	3488.2	28.2	1.5
OG-1-7	1195992	1574858	164076	0.88	3.319	1.5	28.2929	3.2	0.68140	2.8	0.881	3349.7	73.4	3429.3	31.3	3476.1	23.4	3.6
OG-1-8	865693.2	1139926	31108	1.99	3.311	1.9	29.4110	3.4	0.70660	2.8	0.825	3445.6	74.8	3467.3	33.4	3479.9	29.7	1.0
OG-1-9	909458	1197555	145609	0.88	3.347	1.7	27.9691	4.4	0.67927	4.1	0.926	3341.6	105.7	3418.0	42.9	3463.1	25.7	3.5
OG-1-10	808327.7	1064389	2208756	1.06	3.320	1.4	28.7629	2.9	0.69287	2.5	0.877	3393.6	67.3	3445.5	28.5	3475.8	21.7	2.4
OG-1-12	1286464	1693988	61601	1.65	3.327	2.2	29.3154	3.9	0.70758	3.3	0.835	3449.3	87.4	3464.1	38.5	3472.7	33.5	0.7
OG-1-13	973805.8	1282287	35636	1.25	3.330	1.8	28.4372	3.6	0.68719	3.1	0.869	3371.9	82.3	3434.3	35.4	3470.9	27.6	2.9
OG-1-14	627634.1	826455	61923	1.48	3.370	1.9	28.5770	3.5	0.69869	2.9	0.835	3415.7	76.5	3439.1	33.9	3452.8	29.5	1.1
OG-1-15	733860.8	966332	28665	1.87	3.359	1.5	28.4023	3.0	0.69213	2.5	0.858	3390.7	66.8	3433.1	29.0	3457.9	23.5	1.9

OG1 CA Run 1 (discordant)

OG-1-11	4954430	6523888	25627	5.50	17.040	2.1	0.7325	3.4	0.09056	2.8	0.802	558.9	14.8	558.0	14.8	554.4	44.8	-0.8
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OG1 CA Run 2

OG-1 1	1768903	1578975.2	2134663	1.04	3.355	1.7	29.0162	3.7	0.70631	3.3	0.883	3444.5	87	3454.1	36.2	3459.6	26.9	0.4
OG-1 10	892235	796435.36	137257	1.11	3.373	2.2	29.2304	4.3	0.71536	3.7	0.862	3478.6	98.9	3461.3	41.9	3451.3	33.5	-0.8
OG-1 11	1237821	1104915.6	1739853	1.7	3.413	2.4	29.145	4.3	0.72171	3.5	0.828	3502.4	95.6	3458.4	42	3433	37.3	-2.0
OG-1 12	1499499	1338497.2	29212251	2.02	3.357	2.1	29.2441	3.4	0.71236	2.7	0.782	3467.4	71.3	3461.7	33.4	3458.5	32.8	-0.3
OG-1 13	1346007	1201485.7	1625390	1.25	3.349	1.5	29.4544	3.9	0.71581	3.6	0.923	3480.3	97.2	3468.8	38.4	3462.1	23.3	-0.5
OG-1 14	822084	733816.5	118534	1.4	3.377	1.6	29.8246	4.1	0.73083	3.7	0.918	3536.5	101.9	3481.1	40.1	3449.3	25.1	-2.5
OG-1 15	935800	835322.77	141581	1.54	3.351	1.9	29.4882	3	0.71693	2.3	0.777	3484.5	63.2	3469.9	29.6	3461.5	29.4	-0.7
OG-1 16	1194016	1065814	125951	1.13	3.417	1.6	28.7861	3.7	0.7137	3.3	0.897	3472.4	88	3446.3	35.9	3431.1	25.1	-1.2
OG-1 17	1649325	1472236.3	387267	1.07	3.386	2.1	28.897	3.1	0.70995	2.3	0.739	3458.3	61.3	3450	30.4	3445.2	32.4	-0.4
OG-1 18	759591	678033.4	339147	1.6	3.363	1.5	29.9107	4	0.7299	3.7	0.925	3533	100.6	3483.9	39.3	3455.7	23.6	-2.2
OG-1 19	1467449	1309888.4	313161	1.3	3.33	1.4	29.5722	2.8	0.71462	2.5	0.87	3475.9	66	3472.7	27.8	3470.9	21.6	-0.1
OG-1 2	1051880	938939.21	1602974	1.37	3.374	1.5	29.1643	3.3	0.71409	3	0.894	3473.9	79.3	3459.1	32.4	3450.5	23	-0.7
OG-1 20	1117170	997219	349233	1.83	3.347	1.8	29.7542	3.4	0.72257	2.9	0.858	3505.7	79.3	3478.7	33.6	3463.2	27.2	-1.2
OG-1 21	859900	767572.18	382743	1.19	3.373	1.5	29.019	3	0.71015	2.6	0.868	3459	70.5	3454.2	29.8	3451.3	23.3	-0.2

OG-1 22	2293806	2047519.1	616713	0.79	3.341	1.5	28.9015	2.4	0.70062	1.9	0.772	3423	49.4	3450.2	23.7	3466	23.7	1.2
OG-1 23	2138041	1908478.7	576063	0.82	3.373	1.8	28.4621	3.4	0.69658	2.8	0.838	3407.7	74.7	3435.1	33	3451.2	28.5	1.3
OG-1 24	1077348	961672.7	371690	1.78	3.374	1.3	28.8363	3	0.70594	2.7	0.901	3443.1	72	3448	29.4	3450.8	20.2	0.2
OG-1 25	1506216	1344493	701733	0.95	3.376	2.1	28.5796	3.3	0.70019	2.5	0.758	3421.4	65.5	3439.2	31.9	3449.6	32.9	0.8
OG-1 26	1698773	1516375	830019	1.86	3.354	1.6	29.0407	2.8	0.7068	2.4	0.837	3446.4	63.6	3454.9	27.9	3459.8	24.1	0.4
OG-1 27	1451921	1296027.6	777709	0.94	3.361	1.7	29.0183	2.7	0.70768	2.1	0.789	3449.7	56.7	3454.1	26.4	3456.7	25.6	0.2
OG-1 28	1062091	948053.85	308155	1	3.354	1.3	28.2759	3.3	0.68814	3	0.914	3375.5	78.5	3428.7	32.1	3459.9	20.5	2.4
OG-1 29	2136179	1906816.6	718523	1.17	3.34	2.1	28.1684	3.7	0.68275	3.1	0.823	3354.9	80.5	3425	36.7	3466.2	32.9	3.2
OG-1 3	1688997	1507648.7	672577	0.92	3.309	1.8	28.7723	3.5	0.69081	3	0.851	3385.7	78.6	3445.8	34.4	3480.9	28.5	2.7
OG-1 30	1807283	1613234.3	308037	0.93	3.374	1.5	28.6633	3.3	0.70177	3	0.899	3427.4	79.5	3442.1	32.6	3450.6	22.6	0.7
OG-1 4	935574	835121.03	267750	1.31	3.389	2.1	28.6482	4.1	0.70441	3.6	0.867	3437.3	95.3	3441.5	40.5	3444	31.9	0.2
OG-1 5	1742081	1555033	490462	1.4	3.341	1.4	29.2091	2.9	0.70813	2.5	0.876	3451.4	67.6	3460.6	28.4	3465.9	21.6	0.4
OG-1 6	1553271	1386495.7	342434	1.82	3.324	1.9	28.6873	3.5	0.69195	2.9	0.829	3390.1	75.7	3442.9	34	3473.7	30	2.4
OG-1 7	1161156	1036482.2	196016	1.81	3.35	2	28.5833	3	0.69478	2.3	0.75	3400.8	60.4	3439.3	29.9	3461.8	31.2	1.8
OG-1 8	1291113	1152485.7	316443	1.92	3.337	2.1	28.606	3.2	0.69262	2.5	0.767	3392.6	65.1	3440.1	31.6	3467.9	32.1	2.2
OG-1 9	2060584	1839338.2	311377	1.23	3.352	1.9	28.8112	3.1	0.7008	2.5	0.791	3423.7	66.1	3447.1	30.9	3460.7	29.8	1.1

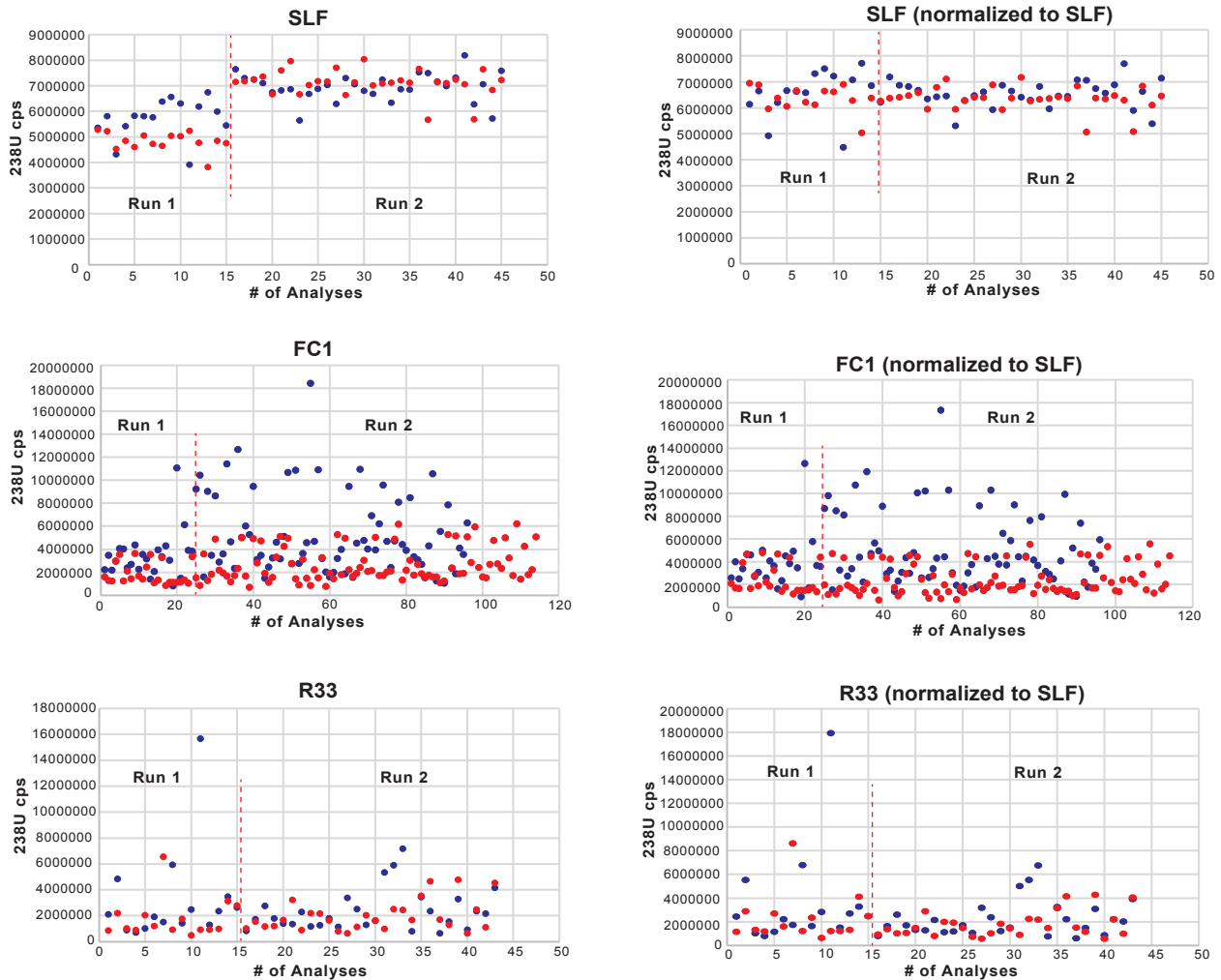
Uranium (238 cps) normalization to SLF

Uranium concentrations (ppm) reported from routine U-Pb LA-ICP-MS zircon analyses at ALC are semiquantitative and calibrated by bracketing unknowns with analyses of reference materials with a known average U concentration. However, since chemical abrasion selectively dissolves high-uranium zones, and thus modifies the average U concentration of reference materials by an unquantified amount, the reported U concentration values for reference materials analyzed by traditional (non-CA) ID-TIMS may no longer be valid. We found that the primary reference material SLF had homogenous ^{238}U cps (counts per second) within individual sessions (Figs. S15-S17) for both the CA and non-CA runs. We interpret this to mean that SLF has a homogenous U concentration (and radiation damage) and that any differences in ^{238}U cps for SLF between different analytical sessions are related to changes in the instrument's sensitivity. As such, we normalize the ^{238}U cps for all other grains analyzed in each session to the average ^{238}U cps of SLF across all sessions. Given the potential difference between chemically abraded and untreated SLF U concentrations, we did this correction independently for treated and untreated grains. Since we do not have U concentration values for treated and untreated SLF, we center our discussions on relative differences in U concentration as estimated using the intensity (in cps) of the ^{238}U beam, rather than quantifying U concentrations.

Figure S18 shows detrital zircon samples NM8A and Rora Med normalized ^{238}U cps values plotted against Pb^*/Pbc ratios.

Primary Reference Materials During Round Robin

● No CA aliquot ● CA aliquot



Average of all 238U cps SLF no CA runs 1-2: 6544543
 Average SLF Run 1: 5721234 (fractionation factor: 0.874)
 Average SLF Run 2: 6956197 (fractionation factor: 1.063)

Average of all 238U cps SLF CA runs 1-2: 6355556
 Average SLF CA Run 1: 4826593 (fractionation factor: 0.759)
 Average SLF CA Run 2: 7120037 (fractionation factor: 1.120)

Figure S15. Scatter plots showing primary reference materials (FC1, SLF, R33) versus uranium (^{238}U cps). Plots show both raw data (left column) and the same data normalized to SLF. We found that primary SLF had homogeneous ^{238}U cps within individual sessions of both treated and untreated runs. We normalize the ^{238}U cps for all other grains and reference materials in each session to the average ^{238}U cps of SLF across for treated and untreated aliquots, respectively.

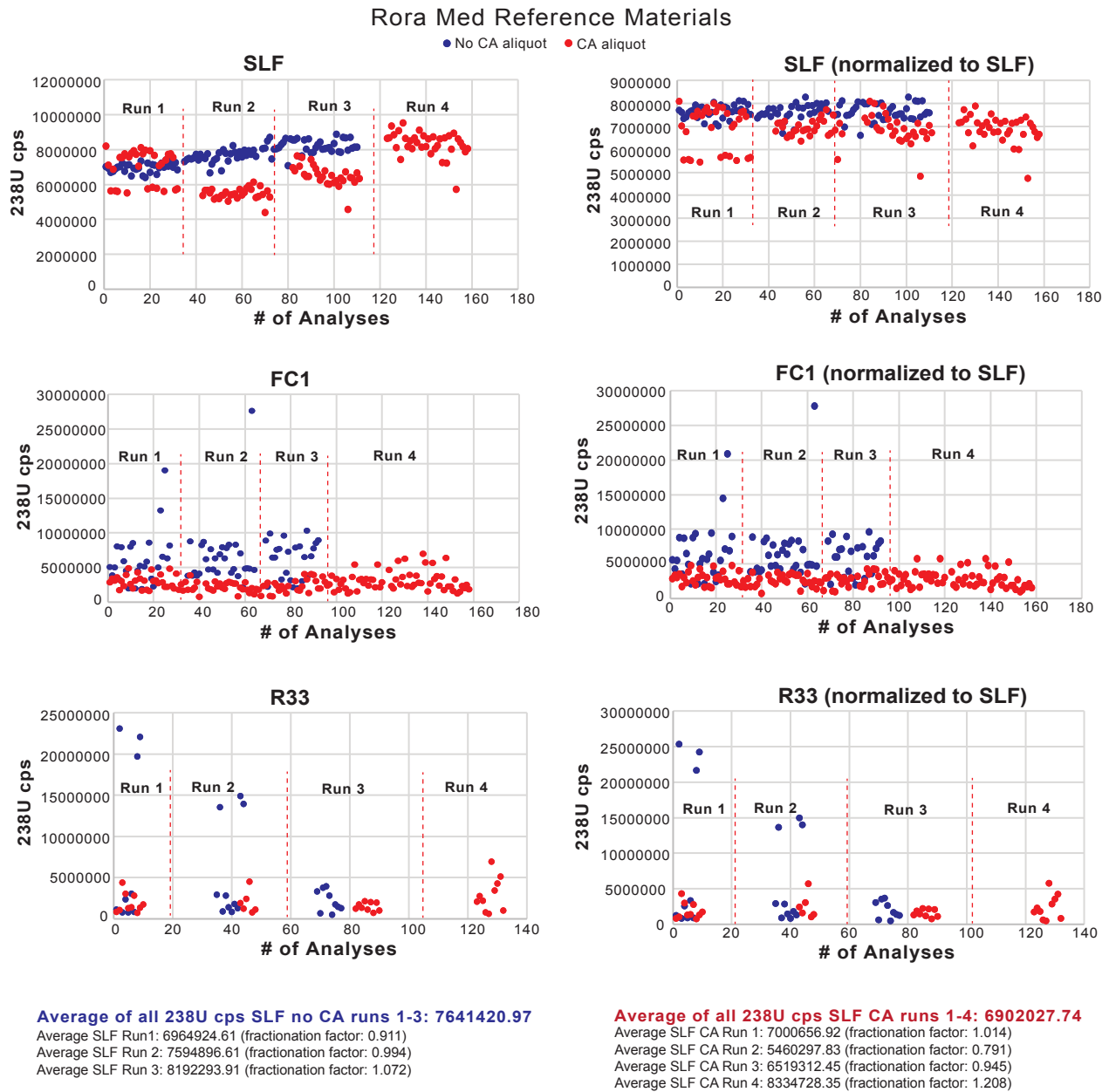
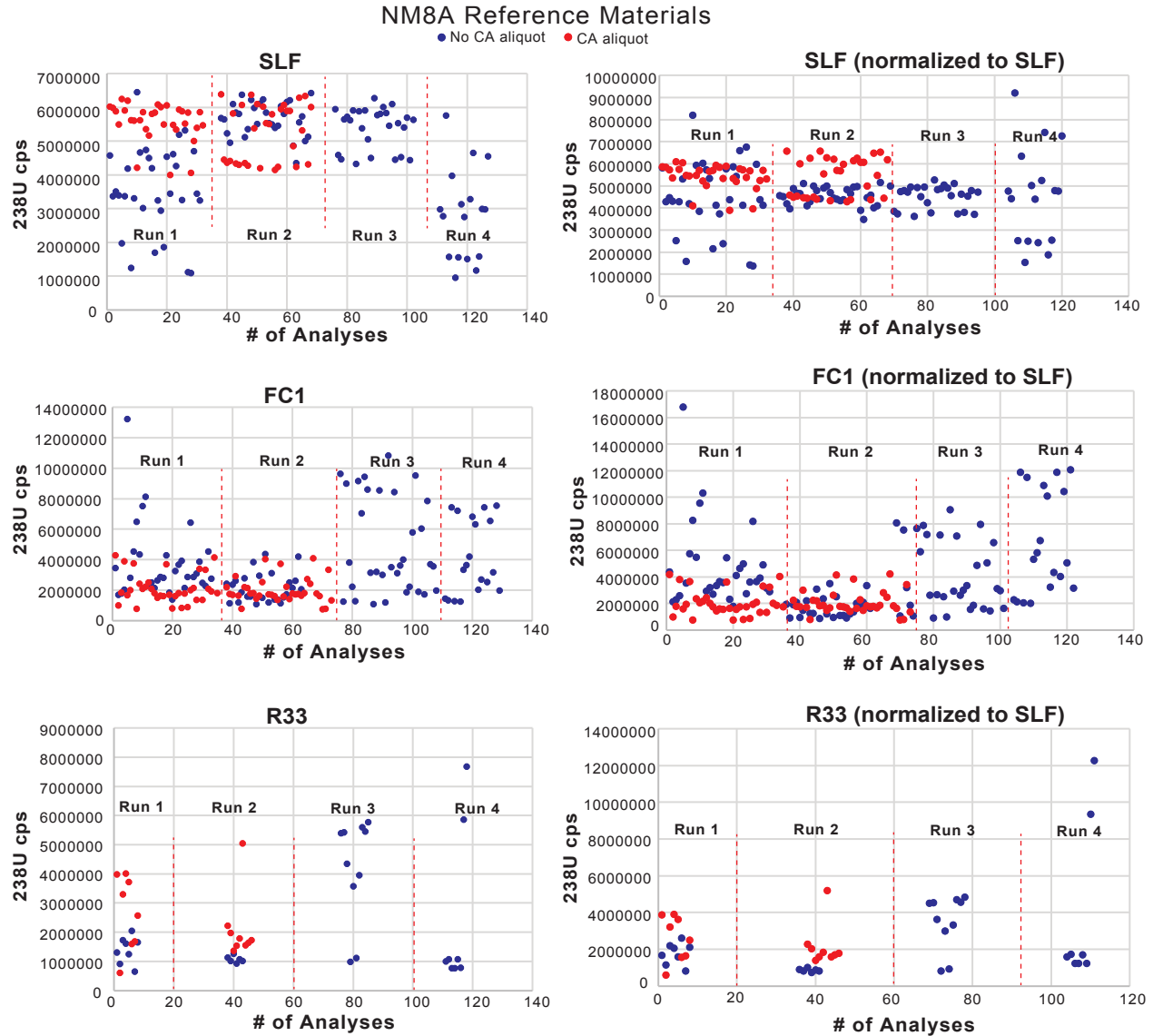


Figure S16. Scatter plots showing reference materials versus uranium (^{238}U cps) analyzed during detrital zircon sample Rora Med analyses. Plots show both raw data (left column) and the same data normalized to SLF (right). We found that primary SLF had homogeneous ^{238}U cps within individual sessions of both treated and untreated runs. We normalize the ^{238}U cps for all unknown Rora Med grains and reference materials in each session to the average ^{238}U cps of SLF across for treated and untreated aliquots, respectively.



Average of all 238U cps SLF no CA runs 1-4: 4524160.91

Average SLF Run1: 3561630.15 (fractionation factor: 0.788)
 Average SLF Run 2: 5649853.09 (fractionation factor: 1.249)
 Average SLF Run 3: 5402447.47 (fractionation factor: 1.194)
 Average SLF Run 4: 2831705.55 (fractionation factor: 0.626)

Average of all 238U cps SLF CA runs 1-2: 5419888

Average SLF CA Run 1: 5570640.05 (fractionation factor: 1.028)
 Average SLF CA Run 2: 5264273.73 (fractionation factor: 0.971)

Figure S17. Scatter plots showing reference materials versus uranium (^{238}U cps) analyzed during detrital zircon sample NM8A analyses. Plots show both raw data (left column) and the same data normalized to SLF (right). We found that primary SLF had homogeneous ^{238}U cps within individual sessions of both treated and untreated runs. We normalize the ^{238}U cps for all unknown NM8A grains and reference materials in each session to the average ^{238}U cps of SLF across for treated and untreated aliquots, respectively.

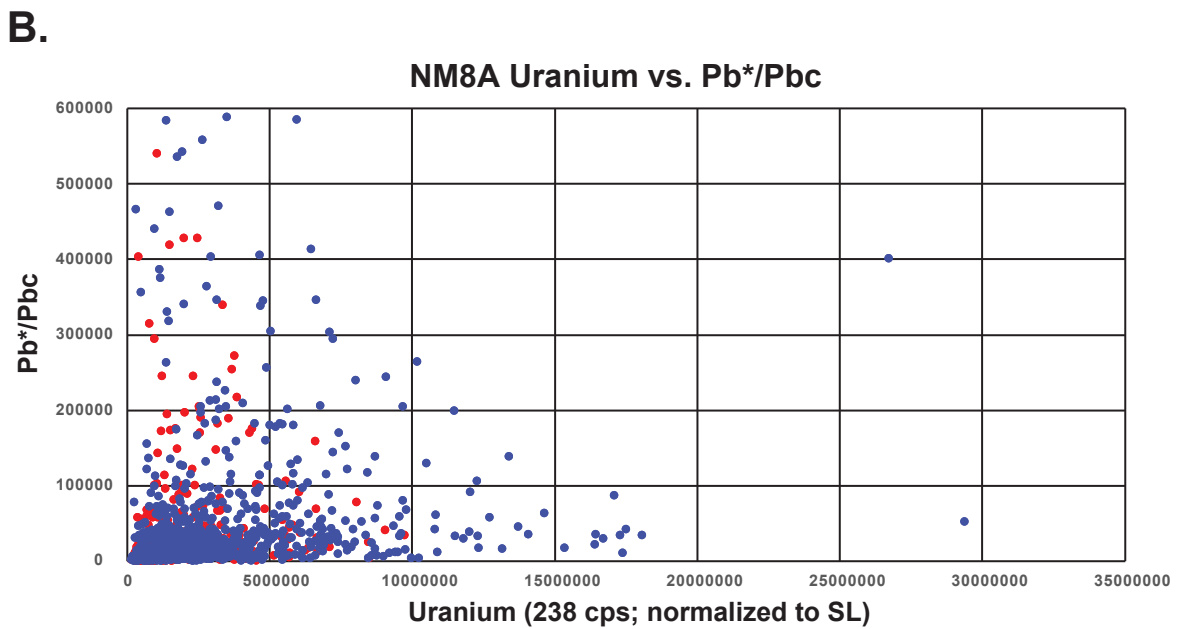
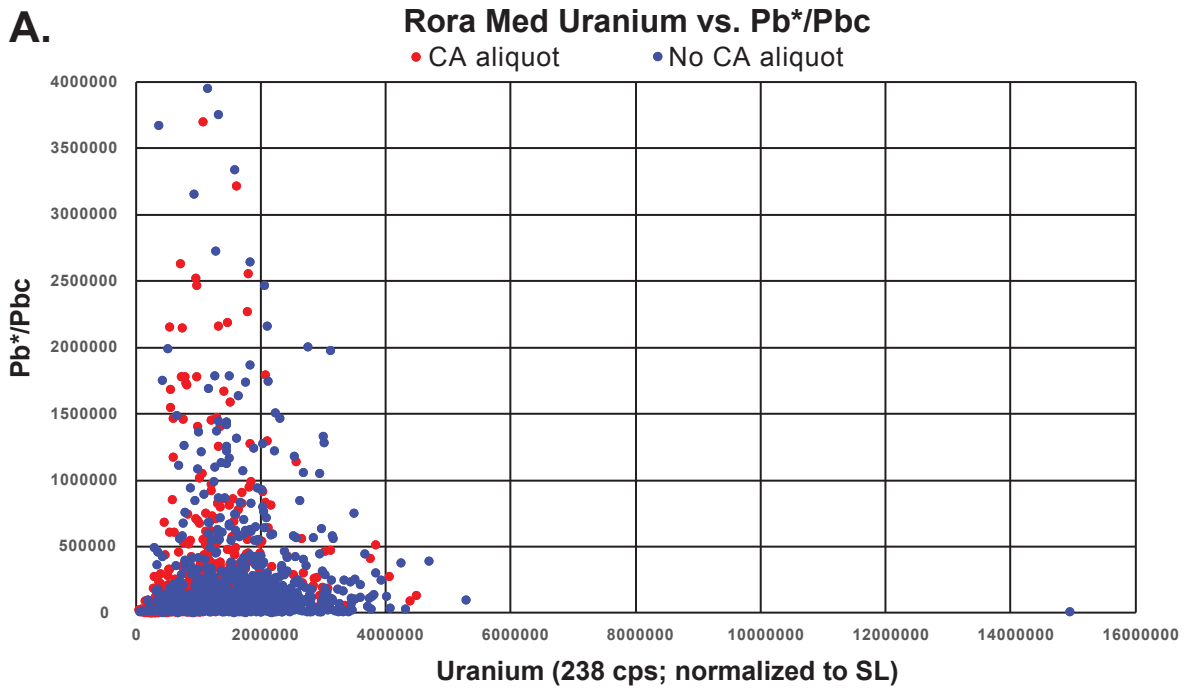


Figure S18. Pb*/Pbc ratios plotted against Uranium (238 cps) for **A.** Rora Med and **B.** NM8A. The Pb*/Pbc ratios in the treated aliquot of Rora Med and NM8A are marginally higher than the untreated aliquot for similar concentrations of uranium, but are overall similar.

Zircon Optical Profilometry

Optical profilometry data was collected to determine how pit depths differed from treated and untreated aliquots to determine if CA has an effect of laser coupling and laser ablation rates. Table S14 shows pit depth data collected for treated and untreated aliquots of reference materials (FC1, SLF, R33). Table S15 shows pit depths for treated and untreated aliquots of MIGU-02. Depth maps, 3-D images, and crosscut profiles for all analyses are available upon request.

Table S14. Measured pit depths for treated and untreated aliquots of primary reference materials

Primary Reference Materials						
Time	FC1 CA	SL CA	R33 CA	FC1 no CA	SL no CA	R33 no CA
<i>pit depths (um)</i>						
3 secs	1.8	1.9	2	1.7	1.9	2.1
6 secs	2.9	3.3	3	2.8	3.4	3.3
9 secs	4	4.2	4	4.5	4.7	4.4
12 secs	5.5	5.1	5.3	6	5.6	5.5
15 secs	6.7	6.5	6.7	7.4	7	7
18 secs	8.2	7.6	8	9	8.1	8.2
21 secs	9.3	9	9.2	10.5	9.7	9.8
24 secs	10.4	10	11	12	11	11.2
27 secs	12	11.2	12.5	13.2	12.3	12.7
30 secs	13.5	13	13.7	14.5	13.8	14
<i>Ablation Rates</i>	<i>0.45</i>	<i>0.43</i>	<i>0.46</i>	<i>0.48</i>	<i>0.46</i>	<i>0.47</i>
<i>um/secs</i>						

Table S15. Measured pit depths from treated and untreated aliquots of MIGU-02
MIGU-02 no CA

	<i>pit depths (μm)</i>
spot 1	10
spot 2	12
spot 3	9.2
spot 10	9.5
spot 33	11

MIGU-02 CA

	<i>pit depths (μm)</i>
spot 13	8
spot 2	8
spot 4	8.3

MIGU-02 U-Pb zircon geochronology data (CA-ID-TIMS and CA-LA-ICP-MS)

This section includes raw data for concordant and discordant U-Pb zircon geochronology for igneous sample MIGU-02. Table S16 contains all LA-ICP-MS and CA-LA-ICP-MS data and Table S17 contains all CA-ID-TIMS data.

TABLE S16: MIGU-02 LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition										Ages						% Disc.
	U (238 cps)	206Pb/ 204Pb	U/Th	206Pb/ 207Pb	1σ (%)	207Pb/ 235U	1σ (%)	206Pb/ 238U	1σ (%)	error corr.	206Pb/ 238U	1σ (Ma)	207Pb/ 235U	1σ (Ma)	206Pb/ 207Pb	1σ (Ma)	
<i>MIGU-02 (no CA)</i>																	
1	69345121	1094	2.629	11.7341	1.87	2.3017	1.99	0.19597	0.67	0.338	1153.62	7.1	1212.81	14.1	1319.72	36.3	12.6
31	37007127	1309	2.575	10.5165	0.74	3.0369	2.37	0.23174	2.26	0.951	1343.59	27.4	1416.95	18.1	1528.99	13.8	12.1
34	24883550	4583	2.535	11.5954	0.54	2.2007	2.63	0.18515	2.58	0.979	1095.08	25.9	1181.27	18.4	1342.74	10.3	18.4
35	20882124	22136	4.478	12.2946	0.64	2.3127	1.46	0.20631	1.31	0.899	1209.14	14.5	1216.19	10.4	1228.74	12.5	1.6
<i>MIGU-02 (no CA; discordant)</i>																	
2	5435824	22935	0.070	17.3008	1.74	1.8437	2.19	0.23145	1.32	0.605	1342.09	16.0	1061.20	14.4	521.24	38.2	-157.5
3	50683043	58723	1.643	13.4834	0.81	2.4249	1.14	0.23723	0.81	0.707	1372.29	10.0	1250.00	8.2	1045.11	16.3	-31.3
4	21491403	5660	3.817	12.2240	0.41	3.4997	0.86	0.31041	0.76	0.880	1742.72	11.6	1527.15	6.8	1240.03	8.0	-40.5
5	2023758	282	1.750	4.1808	0.42	17.6820	0.80	0.53639	0.69	0.852	2768.34	15.4	2972.60	7.7	3113.86	6.7	11.1
6	18865191	1680	1.851	8.3907	3.81	2.8259	4.21	0.17205	1.80	0.426	1023.37	17.0	1362.44	31.6	1943.16	68.2	47.3
7	179954	145	5.997	2.2799	6.42	30.0156	30.68	0.49654	30.00	0.978	2598.92	643.9	3487.32	310.9	4046.37	95.9	35.8
9	68459621	34309	2.715	14.2840	0.65	2.3215	0.96	0.24061	0.71	0.740	1389.86	8.9	1218.89	6.8	927.70	13.3	-49.8
13	53536685	5958	2.550	12.9919	0.67	2.4782	1.22	0.23361	1.03	0.840	1353.40	12.6	1265.68	8.9	1119.56	13.3	-20.9
16	12881911	28355	1.929	11.8550	1.23	2.8761	1.98	0.24739	1.55	0.784	1425.01	19.9	1375.66	14.9	1299.84	23.9	-9.6
17	20475955	32116	2.183	12.1590	0.62	2.6553	1.14	0.23426	0.96	0.839	1356.77	11.7	1316.11	8.4	1250.45	12.2	-8.5
21	2522601	2002	2.725	8.4673	2.83	4.0953	3.47	0.25161	2.00	0.578	1446.76	25.9	1653.38	28.3	1926.90	50.7	24.9
22	21330356	507	4.090	8.0805	3.48	6.6782	3.81	0.39155	1.57	0.411	2129.99	28.5	2069.74	33.7	2010.27	61.7	-6.0
27	58829527	45082	2.647	13.8392	0.38	2.4755	0.69	0.24858	0.58	0.832	1431.13	7.4	1264.89	5.0	992.36	7.8	-44.2
30	45191687	12827	1.085	14.9929	2.30	2.0891	30.09	0.22726	30.00	0.997	1320.14	358.5	1145.22	209.5	827.46	48.0	-59.5
32	14436036	48293	3.510	11.9403	0.54	2.7520	1.54	0.23842	1.44	0.936	1378.48	17.9	1342.62	11.5	1285.89	10.5	-7.2
33	53389376	3922	2.048	12.5164	0.43	2.4919	1.28	0.22630	1.20	0.941	1315.10	14.3	1269.67	9.2	1193.52	8.5	-10.2
<i>MIGU-02 (no CA; partial epoxy hit)</i>																	
8	1	1000	0.721	5.0803	1.00015	36.7765	1.17	1.35566	0.60	0.514	5523.41	22.3	3687.55	11.5	2799.43	16.4	-97.3
14	1	1000	0.000	5.0819	1.00015	36.0276	1.17	1.32846	0.60	0.514	5448.57	22.1	3667.22	11.5	2798.92	16.4	-94.7
15	1	1000	0.000	5.0819	1.00015	35.6852	1.17	1.31584	0.60	0.514	5413.52	22.0	3657.79	11.5	2798.92	16.4	-93.4
18	1	1000	0.000	5.0836	1.00015	31.2287	1.17	1.15189	0.60	0.514	4940.20	20.7	3526.28	11.5	2798.38	16.4	-76.5
19	1	1000	0.721	5.0817	1.00015	36.8174	1.17	1.35753	0.60	0.514	5528.53	22.3	3688.65	11.5	2798.99	16.4	-97.5
20	1	1000	0.143	5.0817	1.00015	36.8163	1.17	1.35748	0.60	0.514	5528.41	22.3	3688.62	11.5	2798.99	16.4	-97.5
23	1	1000	0.299	5.0843	1.00015	36.8206	1.17	1.35835	0.60	0.514	5530.78	22.3	3688.74	11.5	2798.14	16.4	-97.7
24	1	1000	0.911	5.0828	1.00015	36.8207	1.17	1.35794	0.60	0.514	5529.65	22.3	3688.74	11.5	2798.65	16.4	-97.6
25	1	1000	2.079	5.0828	1.00015	36.8209	1.17	1.35794	0.60	0.514	5529.66	22.3	3688.75	11.5	2798.65	16.4	-97.6
26	1	1000	0.721	5.0847	1.00015	36.8166	1.17	1.35829	0.60	0.514	5530.62	22.3	3688.63	11.5	2798.04	16.4	-97.7
28	1	1000	0.721	5.0864	1.00015	36.8088	1.17	1.35846	0.60	0.514	5531.09	22.3	3688.42	11.5	2797.48	16.4	-97.7
29	1	1000	0.721	5.0865	1.00015	36.8296	1.17	1.35926	0.60	0.514	5533.27	22.3	3688.98	11.5	2797.44	16.4	-97.8

Zircon #	Composition										Ages						% Disc.
	U (238 cps)	206Pb/ 204Pb	U/Th	206Pb/ 207Pb	1σ (%)	207Pb/ 235U	1σ (%)	206Pb/ 238U	1σ (%)	error corr.	206Pb/ 238U	1σ (Ma)	207Pb/ 235U	1σ (Ma)	206Pb/ 207Pb	1σ (Ma)	

TABLE S17: MIGU-02 CA-ID-TIMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon	<u>Dates (Ma)</u>				<u>Composition</u>							<u>Isotopic Ratios</u>							
	206Pb/ 238U	2σ (Ma)	207Pb/ 235U	2σ (Ma)	206Pb/ 207Pb	2σ (Ma)	% Disc.	Coef. Corr.	U Th/	Pbc (pg)	Pb' Pbc	206Pb/ 204Pb	208Pb/ 206Pb	206Pb/ 238U	2σ (%)	207Pb/ 235U	2σ (%)	207Pb/ 206Pb	2σ (%)
MIGU z02	1394.7	1.1	1394.4	1.1	1394.1	1.8	0.807	-0.04	0.79	0.54	181	18408	0.235	0.24153	0.084	2.9484	0.15	0.08857	0.087
MIGU z03	1390.1	1.1	1391.9	1.4	1394.6	2.6	0.714	0.32	0.46	0.48	59	7372	0.136	0.24066	0.085	2.9386	0.18	0.0886	0.13
MIGU z04	1391.9	1.4	1392.6	2.3	1393.9	4.8	0.602	0.14	0.45	0.45	25.4	3386	0.134	0.24099	0.11	2.9414	0.3	0.08856	0.25
MIGU z05	1390.9	0.9	1392.2	1.2	1394.2	1.9	0.873	0.23	0.47	0.38	114	17951	0.139	0.24082	0.072	2.9398	0.15	0.08858	0.092
MIGU z06	1396	3.1	1398.3	5.6	1402	12	0.573	0.42	0.49	0.61	14	1387	0.147	0.24179	0.25	2.964	0.74	0.08893	0.63
MIGU z07	1400	6.2	1397.6	4.6	1393.9	6	0.855	-0.44	0.53	0.09	4.26	2721	0.157	0.2426	0.5	2.961	0.61	0.08857	0.31

Detrital zircon U-Pb zircon geochronology data (CA-ID-TIMS and CA-LA-ICP-MS)

This section includes raw data for concordant and discordant U-Pb zircon geochronology for detrital zircon samples NM8A and Rora Med. Tables S18-S19 contain all LA-ICP-MS and CA-LA-ICP-MS data for Rora Med and Tables S20-S21 contain all LA-ICP-MS and CA-ID-TIMS data for NM8A.

Quantitative comparisons of detrital zircon data were completed using Saylor and Sundell (2016) DZStats program. Table S22 contains all quantitative statistical calculations from DZStats.

Table S23 contains tuning parameters for the laser and mass spectrometer at the University of Arizona's LaserChron Center.

TABLE S18: RORA MED (no CA) LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition										Ages							
	U (238 cps)	U (norm) (238 cps)	206Pb/204Pb	U/Th	206Pb/207Pb	1 σ (%)	207Pb/235U	1 σ (%)	206Pb/238U	1 σ (%)	Error Corr.	206Pb/238U (Ma)	1 σ (Ma)	207Pb/235U (Ma)	1 σ (Ma)	206Pb/207Pb (Ma)	1 σ (Ma)	% Disc.
Run 1																		
Spot 1	1218898	1337288	557130.4	2.7	5.4	0.6	13.0	0.9	0.5	0.6	0.73533	2684.0	14.0	2676.1	8.2	2670.1	9.7	-0.5
Spot 2	1633945	1792648	55112.8	2.1	7.2	0.8	8.0	1.2	0.4	0.9	0.76018	2269.3	16.8	2233.7	10.5	2201.3	13.1	-3.1
Spot 3	1867986	2049421	63918.7	4.8	7.7	0.6	6.7	1.1	0.4	1.0	0.83493	2076.4	17.0	2075.5	10.1	2074.4	11.1	-0.1
Spot 4	695211	762736	212666.7	2.8	6.8	0.9	8.7	1.2	0.4	0.8	0.69403	2326.0	16.3	2309.8	11.0	2295.5	14.9	-1.3
Spot 5	1333963	1463530	301097.5	1.2	4.5	0.6	18.2	1.2	0.6	1.0	0.84839	3023.7	24.9	3002.5	11.7	2988.3	10.4	-1.2
Spot 6	1854654	2034794	94037.6	2.3	8.5	0.8	5.5	1.6	0.3	1.4	0.86922	1919.1	23.4	1905.2	14.0	1890.1	14.4	-1.5
Spot 7	1456501	1597969	111580.5	1.2	7.7	0.5	6.9	0.8	0.4	0.6	0.81443	2123.8	11.7	2103.9	7.1	2084.4	8.1	-1.9
Spot 8	1142909	1253919	993476.9	1.7	5.8	0.7	11.6	1.2	0.5	0.9	0.80819	2571.7	20.1	2571.2	11.0	2570.7	11.5	0.0
Spot 9	1584007	1737860	44164.6	2.6	5.4	0.5	13.1	1.0	0.5	0.8	0.84611	2688.0	18.6	2686.3	9.4	2685.0	8.8	-0.1
Spot 10	1603679	1759442	4890.5	2.5	6.6	1.8	7.3	2.0	0.4	0.9	0.42442	1992.0	14.6	2152.3	17.9	2308.9	31.2	13.7
Spot 12	1554689	1705695	109507.3	9.8	7.6	0.7	7.0	1.2	0.4	1.0	0.82965	2129.7	18.1	2113.1	10.7	2096.9	11.8	-1.6
Spot 13	417860	458447	108530.3	1.8	8.2	0.7	6.1	1.4	0.4	1.2	0.88025	2003.1	20.9	1986.4	12.0	1969.1	11.7	-1.7
Spot 14	954706	1047435	171255.3	2.7	5.4	0.6	13.3	1.1	0.5	0.9	0.80499	2725.6	19.5	2700.3	10.3	2681.4	10.7	-1.6
Spot 15	569973	625334	16995.1	2.1	5.0	0.7	14.5	1.1	0.5	0.8	0.72660	2755.9	17.2	2784.1	10.0	2804.6	11.9	1.7
Spot 16	1194973	1311039	131048.5	1.6	8.4	0.7	5.5	1.1	0.3	0.8	0.77097	1881.1	13.6	1901.7	9.3	1924.3	12.3	2.2
Spot 17	1686276	1850063	117008.2	2.3	5.5	0.5	13.1	1.0	0.5	0.9	0.88083	2718.1	20.3	2687.2	9.8	2664.1	8.1	-2.0
Spot 18	800419	878163	11798.0	1.7	6.2	1.4	9.0	1.9	0.4	1.2	0.65993	2227.6	23.2	2336.0	17.1	2432.1	23.8	8.4
Spot 19	2061820	2262083	101482.7	2.6	5.4	0.6	13.1	1.2	0.5	1.1	0.85759	2698.2	23.4	2688.9	11.7	2681.8	10.5	-0.6
Spot 21	1831065	2008915	11946.7	1.2	5.9	0.4	10.6	0.8	0.5	0.7	0.85343	2456.5	14.2	2492.5	7.6	2521.9	7.1	2.6
Spot 22	1829444	2007136	359902.8	1.5	4.2	0.7	19.8	1.2	0.6	0.9	0.81080	3036.0	22.6	3079.2	11.1	3107.5	10.7	2.3
Spot 23	1662187	1823634	115853.2	4.8	7.7	0.8	6.8	1.2	0.4	0.9	0.74678	2110.7	15.7	2091.4	10.4	2072.4	13.7	-1.8
Spot 24	1520431	1668109	47904.1	1.0	8.5	0.5	5.7	0.8	0.4	0.7	0.80554	1963.2	11.3	1936.1	7.1	1907.1	8.8	-2.9
Spot 25	1200356	1316946	572828.8	1.8	7.5	0.7	7.0	1.2	0.4	1.0	0.82156	2105.5	17.8	2109.3	10.7	2113.0	12.0	0.4
Spot 26	1805895	1981300	11677.7	1.6	6.4	2.1	9.0	2.3	0.4	1.0	0.43934	2282.8	19.5	2341.7	21.1	2393.4	35.3	4.6
Spot 27	1122810	1231868	104061.7	4.9	5.0	0.7	15.3	1.2	0.6	1.0	0.83524	2865.7	23.1	2831.9	11.4	2808.0	10.7	-2.1
Spot 28	2053065	2252477	268683.8	2.3	8.5	0.5	5.5	1.0	0.3	0.8	0.85605	1904.9	13.6	1897.6	8.3	1889.6	8.9	-0.8
Spot 29	818981	898528	77117.8	2.4	6.3	0.7	10.1	1.1	0.5	0.8	0.73857	2467.8	16.8	2446.4	10.2	2428.7	12.6	-1.6
Spot 30	1361784	1494053	42400.4	2.0	5.2	0.6	14.3	1.0	0.5	0.9	0.83127	2806.0	19.6	2769.1	9.8	2742.3	9.4	-2.3
Spot 31	1406636	1543261	96960.7	2.1	8.5	0.7	5.5	1.1	0.3	0.8	0.77060	1905.2	13.7	1901.2	9.3	1896.9	12.3	-0.4
Spot 32	1280019	1404346	63409.3	1.7	7.4	0.6	7.2	1.1	0.4	1.0	0.87066	2139.0	17.7	2138.6	10.0	2138.2	9.6	0.0
Spot 33	1443390	1583585	95249.2	2.3	8.5	0.7	5.5	1.1	0.3	0.9	0.81725	1916.7	15.6	1904.2	9.9	1890.5	11.9	-1.4
Spot 34	1519936	1667566	130576.9	1.8	8.5	0.9	5.4	1.1	0.3	0.7	0.65319	1893.1	12.1	1891.3	9.7	1889.3	15.4	-0.2
Spot 35	1265314	1388213	150712.3	1.6	5.3	0.7	13.7	1.3	0.5	1.1	0.83809	2765.3	24.5	2726.2	12.3	2697.4	11.7	-2.5
Spot 36	1505484	1651710	115295.5	1.5	7.5	0.6	7.3	1.3	0.4	1.2	0.88407	2171.3	21.7	2150.6	11.9	2130.9	10.9	-1.9
Spot 37	2115032	2320463	91268.9	2.1	7.8	0.5	6.6	1.3	0.4	1.2	0.91230	2060.9	21.5	2057.7	11.8	2054.5	9.7	-0.3
Spot 38	1677781	1840742	208410.3	2.1	5.4	0.6	13.1	1.2	0.5	1.0	0.83367	2703.9	21.2	2688.8	10.9	2677.5	10.5	-1.0
Spot 39	1048438	1150272	67174.3	2.8	7.6	0.7	7.2	1.1	0.4	0.9	0.77331	2162.9	16.1	2133.8	10.1	2105.9	12.6	-2.7
Spot 40	750584	823487	123839.6	1.6	6.9	0.8	8.3	1.4	0.4	1.1	0.83408	2268.6	22.0	2263.9	12.5	2259.7	13.1	-0.4

Spot 42	1804316	1979567	58829.6	1.5	8.4	0.6	5.0	0.8	0.3	0.6	0.74214	1733.4	9.6	1821.0	7.2	1922.6	10.2	9.8
Spot 43	1576957	1730125	124452.3	3.2	5.4	0.6	13.0	1.1	0.5	0.8	0.79634	2681.9	18.4	2680.9	9.9	2680.1	10.5	-0.1
Spot 44	865992	950105	844519.9	2.7	7.1	0.7	7.9	1.1	0.4	0.9	0.81143	2215.5	17.3	2216.6	10.3	2217.6	11.5	0.1
Spot 45	1589288	1743654	51912.8	3.3	7.5	0.4	6.9	0.8	0.4	0.7	0.85035	2074.7	12.6	2100.5	7.4	2125.9	7.7	2.4
Spot 46	1562030	1713748	348745.7	2.3	5.5	0.7	13.1	1.2	0.5	0.9	0.81706	2725.3	20.9	2689.7	10.9	2663.0	11.0	-2.3
Spot 47	855522	938618	27681.5	1.6	7.9	0.6	6.1	0.9	0.4	0.7	0.76866	1960.1	11.7	1994.1	7.8	2029.6	10.2	3.4
Spot 48	1909661	2095144	53417.8	1.9	8.4	0.7	5.5	1.2	0.3	1.0	0.81522	1887.8	15.6	1903.5	10.0	1920.7	12.1	1.7
Spot 49	1808889	1984585	47930.4	2.6	5.4	0.7	12.3	1.3	0.5	1.1	0.85347	2543.6	23.2	2625.7	12.1	2689.6	11.1	5.4
Spot 50	1333963	1463530	125583.1	2.4	5.4	0.6	13.2	1.1	0.5	0.9	0.83309	2697.7	19.7	2697.3	10.1	2697.1	9.8	0.0
Spot 51	1839826	2018527	96405.1	2.1	7.5	0.7	7.4	1.1	0.4	0.9	0.78294	2192.7	16.6	2163.0	10.2	2134.9	12.4	-2.7
Spot 52	525644	576699	113691.8	1.7	7.3	0.8	7.4	1.2	0.4	0.9	0.76113	2163.1	17.0	2163.7	10.9	2164.3	13.7	0.1
Spot 53	1797331	1971905	237615.1	2.4	5.1	0.7	14.7	1.3	0.5	1.1	0.82796	2809.0	24.3	2798.2	12.3	2790.4	11.8	-0.7
Spot 54	1485069	1629313	18029.5	1.9	6.8	0.9	7.9	1.4	0.4	1.0	0.73949	2138.8	18.7	2218.1	12.5	2292.2	16.1	6.7
Spot 55	394160	432445	1755688.2	1.9	7.6	0.7	7.0	1.1	0.4	0.9	0.77502	2127.1	15.6	2113.9	9.9	2101.2	12.3	-1.2
Spot 56	624645	685316	168149.6	2.4	5.4	0.7	12.8	1.2	0.5	1.0	0.82273	2647.4	20.6	2667.0	10.9	2681.9	10.9	1.3
Spot 57	1737137	1905863	32792.2	1.1	7.4	0.5	7.2	1.1	0.4	0.9	0.88541	2113.6	16.9	2134.4	9.5	2154.5	8.6	1.9
Spot 58	1687400	1851295	219471.8	1.8	8.4	0.6	5.6	1.0	0.3	0.8	0.83836	1898.7	14.0	1914.0	8.7	1930.6	9.9	1.7
Spot 59	2419636	2654653	205143.1	3.1	4.9	0.7	15.3	1.2	0.5	0.9	0.80386	2821.9	21.3	2835.5	11.0	2845.2	11.2	0.8
Spot 60	1452447	1593522	44239.3	1.2	6.1	0.7	10.4	1.0	0.5	0.8	0.76440	2447.6	15.9	2468.8	9.5	2486.4	11.1	1.6
Spot 61	1357847	1489733	174010.6	1.3	7.8	0.7	6.6	1.1	0.4	0.9	0.80536	2064.6	16.2	2056.8	10.0	2048.9	11.9	-0.8
Spot 62	1046296	1147922	23585.0	2.3	7.1	0.7	7.5	1.1	0.4	0.9	0.77867	2109.2	16.0	2168.9	10.3	2225.9	12.4	5.2
Spot 63	906558	994611	54497.0	2.4	8.3	0.6	5.4	1.0	0.3	0.8	0.80929	1841.2	12.4	1890.2	8.2	1944.5	10.1	5.3
Spot 64	2548634	2796181	98395.8	4.6	7.0	0.8	8.1	1.2	0.4	1.0	0.77485	2241.8	18.0	2239.8	11.1	2238.0	13.4	-0.2
Spot 65	931245	1021696	80670.4	3.8	7.6	0.7	6.9	1.2	0.4	0.9	0.78709	2080.9	16.5	2093.7	10.4	2106.3	12.7	1.2
Spot 66	1630129	1788461	237287.9	1.0	8.6	0.8	5.5	1.2	0.3	0.9	0.77873	1913.3	15.7	1896.3	10.5	1877.8	13.8	-1.9
Spot 67	722846	793056	397941.8	1.4	7.7	0.7	6.8	1.2	0.4	1.0	0.82532	2082.2	17.6	2085.7	10.6	2089.3	11.9	0.3
Spot 68	2564050	2813094	6936.9	2.4	7.3	1.5	6.4	1.7	0.3	0.8	0.46700	1933.1	12.9	2034.5	14.5	2138.9	25.6	9.6
Spot 69	1621435	1778923	121762.2	1.8	8.2	0.8	6.1	1.2	0.4	0.9	0.77312	2004.2	16.1	1988.3	10.5	1971.8	13.6	-1.6
Spot 70	621549	681919	1115656.2	1.9	7.4	0.7	7.4	1.1	0.4	0.8	0.75148	2162.0	14.9	2155.8	9.6	2150.0	12.4	-0.6
Spot 71	2032228	2229616	96429.2	2.3	5.4	0.8	12.4	1.4	0.5	1.2	0.82832	2579.2	24.7	2635.2	13.2	2678.6	13.0	3.7
Spot 72	2186465	2398834	111739.9	3.8	7.2	0.5	7.8	1.0	0.4	0.9	0.88238	2213.8	16.4	2208.6	8.9	2203.7	8.1	-0.5
Spot 73	763661	837835	124311.1	1.8	7.5	0.7	7.0	1.1	0.4	0.9	0.80427	2118.2	15.9	2117.3	9.8	2116.4	11.4	-0.1
Spot 74	1459925	1601726	162915.8	2.5	5.6	0.8	11.9	1.3	0.5	1.0	0.80505	2561.6	22.2	2596.5	12.2	2623.8	12.9	2.4
Spot 75	977606	1072560	95048.8	4.3	7.1	0.6	7.7	1.3	0.4	1.1	0.89014	2189.9	21.2	2201.3	11.5	2211.8	10.1	1.0
Spot 76	3022656	3316244	13732.5	1.4	7.7	2.1	5.1	3.2	0.3	2.4	0.75139	1651.6	35.5	1839.4	27.5	2059.1	37.8	19.8
Spot 77	1646664	1806603	111675.3	2.6	8.6	0.6	5.4	1.2	0.3	1.1	0.86543	1889.9	17.3	1881.6	10.4	1872.4	11.0	-0.9
Spot 78	2224961	2441070	90144.3	3.7	7.5	0.6	6.5	1.4	0.4	1.2	0.90382	1971.2	21.2	2042.6	12.2	2115.5	10.4	6.8
Spot 79	1171650	1285452	105703.1	5.8	7.4	0.7	7.2	1.2	0.4	0.9	0.81473	2137.3	17.2	2139.5	10.3	2141.7	11.8	0.2
Spot 80	2241916	2459671	9868.6	2.5	6.6	0.8	7.1	1.1	0.3	0.9	0.74590	1895.4	14.0	2118.6	10.1	2342.8	13.0	19.1
Spot 81	1275228	1399090	46271.5	0.9	8.1	0.7	6.2	1.1	0.4	0.9	0.80417	2024.7	15.7	2004.4	9.8	1983.5	11.9	-2.1
Spot 82	328162	360036	98484.2	2.0	7.2	0.8	7.7	1.4	0.4	1.2	0.82592	2195.2	21.9	2192.1	12.8	2189.1	13.9	-0.3
Spot 83	1961061	2151537	113751.0	2.0	8.4	0.7	5.2	1.2	0.3	1.0	0.84223	1800.8	16.4	1854.4	10.5	1914.9	12.0	6.0
Spot 84	1506493	1652818	576089.2	1.9	7.9	0.6	6.6	1.1	0.4	0.9	0.82970	2072.9	16.5	2053.5	9.9	2034.0	11.1	-1.9

Spot 85	494036	542021	36395.3	3.3	7.5	0.8	7.3	1.2	0.4	0.9	0.77843	2159.1	17.2	2143.8	10.7	2129.1	13.2	-1.4
Spot 86	2339454	2566683	137051.1	2.2	7.6	0.6	7.1	1.1	0.4	1.0	0.85855	2142.6	17.7	2127.3	10.1	2112.6	10.2	-1.4
Spot 87	340455	373523	3671512.4	2.9	6.2	0.8	10.5	1.4	0.5	1.1	0.80469	2500.4	23.8	2477.3	13.2	2458.4	14.3	-1.7
Spot 88	1768338	1940095	24082.2	1.6	8.2	0.8	5.6	1.2	0.3	0.8	0.69063	1865.6	13.0	1913.2	10.0	1965.3	15.0	5.1
Spot 89	1772281	1944420	16038.3	1.8	8.0	0.5	6.0	1.0	0.4	0.8	0.85124	1941.2	13.6	1973.6	8.3	2007.6	8.9	3.3
Spot 90	2752776	3020150	1284527.9	2.4	7.2	0.6	7.7	1.2	0.4	1.0	0.85540	2194.5	18.9	2200.6	10.7	2206.2	10.7	0.5
Spot 91	2018743	2214822	20613.9	1.8	7.0	0.8	8.0	1.5	0.4	1.2	0.84084	2229.9	23.2	2231.7	13.2	2233.3	13.7	0.2
Spot 92	2335735	2562602	239659.9	2.3	5.4	0.7	12.9	1.3	0.5	1.1	0.85220	2673.3	23.5	2673.5	11.9	2673.6	10.9	0.0
Spot 93	2683639	2944299	24232.4	1.3	8.2	1.0	5.5	1.3	0.3	0.9	0.67517	1837.4	14.1	1900.3	11.2	1969.8	17.1	6.7
Spot 94	1921807	2108470	262372.7	3.8	5.0	0.6	14.9	1.2	0.5	1.1	0.88868	2817.3	25.1	2807.1	11.8	2799.7	9.3	-0.6
Spot 95	1813616	1989771	165091.8	3.0	8.5	0.7	5.4	1.3	0.3	1.1	0.84752	1878.9	18.2	1892.2	11.3	1906.8	12.6	1.5
Spot 96	1924422	2111339	251435.0	1.5	7.5	0.4	7.2	0.9	0.4	0.8	0.86934	2151.0	14.2	2137.6	8.0	2124.8	7.8	-1.2
Spot 97	3026574	3320542	168284.5	1.9	5.4	0.6	13.0	1.2	0.5	1.0	0.87431	2679.2	22.9	2676.8	11.3	2675.0	9.6	-0.2
Spot 98	2348786	2576922	5251140.1	3.6	7.5	0.6	7.0	1.2	0.4	1.0	0.83755	2108.2	17.8	2114.9	10.5	2121.4	11.3	0.6
Spot 99	868851	953242	100806.9	3.2	7.5	0.7	7.4	1.3	0.4	1.1	0.84598	2205.1	20.8	2159.3	11.8	2116.1	12.3	-4.2
Spot 100	2460007	2698945	100555.4	2.8	5.8	0.5	11.4	1.3	0.5	1.2	0.92625	2534.5	24.8	2554.5	11.9	2570.4	8.1	1.4
Spot 101	1702243	1867580	29924.7	1.3	8.3	0.5	5.7	1.0	0.3	0.8	0.85725	1926.1	13.7	1931.2	8.3	1936.7	8.8	0.6
Spot 102	2826080	3100574	49211.1	1.2	8.3	0.7	5.6	1.3	0.3	1.0	0.81848	1881.2	17.0	1910.1	11.0	1941.8	13.1	3.1
Spot 103	927368	1017443	57884.5	1.1	8.0	0.7	6.4	1.1	0.4	0.9	0.78636	2047.6	15.0	2030.4	9.5	2012.8	11.9	-1.7
Spot 104	1232606	1352327	59791.6	1.7	8.5	0.6	5.5	1.0	0.3	0.8	0.82546	1890.6	13.6	1897.8	8.6	1905.6	10.2	0.8
Spot 105	1671757	1834133	86023.9	1.2	5.0	0.5	14.8	1.1	0.5	0.9	0.87189	2808.5	21.2	2804.7	10.2	2801.9	8.6	-0.2
Spot 106	1691846	1856173	98415.2	1.8	8.2	0.6	5.8	1.2	0.3	1.1	0.87050	1930.9	18.1	1944.1	10.8	1958.2	11.0	1.4
Spot 107	1082075	1187176	152437.7	2.2	8.5	0.8	5.6	1.2	0.3	0.9	0.76072	1927.5	15.8	1919.8	10.8	1911.4	14.5	-0.8
Spot 108	1061677	1164796	152464.8	3.1	5.5	0.5	13.1	1.0	0.5	0.8	0.85546	2717.5	18.7	2687.4	9.3	2664.9	8.4	-2.0
Spot 109	525967	577054	109488.7	1.9	6.9	0.7	8.6	1.3	0.4	1.1	0.84926	2328.2	20.8	2293.5	11.4	2262.7	11.4	-2.9
Spot 110	1908056	2093383	196264.1	1.5	8.5	0.5	5.4	0.9	0.3	0.7	0.78417	1880.8	11.0	1890.5	7.3	1901.3	9.6	1.1
Spot 111	2054651	2254217	86595.5	2.0	8.6	0.6	5.1	1.2	0.3	1.1	0.88929	1787.9	16.8	1835.7	10.3	1890.3	10.0	5.4
Spot 112	1978819	2171019	103478.7	0.8	8.1	0.5	6.1	1.1	0.4	1.0	0.89044	2001.8	16.6	1995.8	9.4	1989.7	8.7	-0.6
Spot 113	697002	764701	676786.2	2.0	7.0	0.7	8.3	1.1	0.4	0.9	0.77432	2275.3	16.9	2264.0	10.3	2253.8	12.4	-1.0
Spot 114	201718	221310	66162.0	1.7	7.4	0.8	7.4	1.1	0.4	0.8	0.73260	2158.7	15.1	2155.8	10.1	2153.0	13.4	-0.3
Spot 115	2342669	2570210	89567.1	1.6	5.3	0.6	13.3	1.9	0.5	1.8	0.95664	2682.2	40.3	2700.8	18.1	2714.8	9.2	1.2
Spot 116	820212	899878	39995.3	2.4	4.9	0.5	16.0	0.9	0.6	0.8	0.81687	2909.3	18.0	2875.2	9.0	2851.4	8.8	-2.0
Spot 117	816972	896324	4937.1	3.4	6.3	1.0	9.2	1.5	0.4	1.1	0.71386	2287.6	20.3	2354.2	13.5	2412.3	17.6	5.2
Spot 118	992998	1089447	891907.7	1.9	3.7	0.5	24.2	1.2	0.7	1.1	0.92105	3268.7	28.7	3276.2	11.9	3280.8	7.4	0.4
Spot 119	2099529	2303455	1464158.2	2.2	8.6	0.7	5.5	1.3	0.3	1.1	0.85511	1910.3	18.5	1901.4	11.3	1891.7	12.2	-1.0
Spot 120	1734207	1902649	85408.8	2.6	8.4	0.7	5.6	1.2	0.3	1.0	0.83844	1910.9	17.3	1917.6	10.8	1924.9	12.2	0.7
Spot 121	2681227	2941652	1051065.6	3.8	5.5	0.6	12.7	1.2	0.5	1.1	0.89257	2652.1	24.0	2661.1	11.6	2667.9	9.2	0.6
Spot 122	1515093	1662253	320874.3	1.2	7.8	0.5	6.9	1.0	0.4	0.9	0.85317	2149.8	15.6	2101.7	8.9	2055.0	9.2	-4.6
Spot 123	1059963	1162916	1694433.4	1.5	5.3	0.6	13.7	1.1	0.5	0.9	0.82330	2753.8	21.1	2727.3	10.8	2707.6	10.7	-1.7
Spot 124	1723208	1890581	1244340.7	2.8	5.4	0.7	12.9	1.2	0.5	1.0	0.82589	2678.6	21.7	2674.1	11.3	2670.6	11.2	-0.3
Spot 125	1397487	1533223	66735.9	1.0	8.5	0.5	5.4	1.0	0.3	0.8	0.84011	1852.8	13.2	1878.3	8.3	1906.5	9.5	2.8
Spot 126	2019037	2215145	9410.4	2.8	6.0	0.7	9.7	1.2	0.4	0.9	0.79434	2293.5	17.9	2407.8	10.8	2505.8	11.9	8.5
Spot 127	1604954	1760841	92695.5	3.1	8.5	0.6	5.6	1.1	0.3	0.9	0.83407	1926.9	14.7	1909.5	9.1	1890.7	10.5	-1.9

Spot 128	566634	621671	63815.9	3.0	4.9	0.7	15.3	1.2	0.5	1.0	0.82839	2821.3	22.7	2831.1	11.4	2838.1	10.9	0.6
Spot 129	1123852	1233011	106405.5	1.0	5.3	0.4	13.1	0.8	0.5	0.7	0.83110	2664.9	14.2	2686.4	7.4	2702.6	7.2	1.4
Spot 130	3343227	3667951	448765.6	3.4	5.3	0.6	12.9	1.5	0.5	1.3	0.90467	2635.8	29.1	2674.6	14.0	2704.1	10.4	2.5
Spot 131	2538460	2785018	91748.9	3.0	7.6	0.6	6.8	1.3	0.4	1.1	0.89120	2085.8	20.3	2091.0	11.3	2096.2	10.2	0.5
Spot 132	903173	990898	118171.4	3.9	7.5	0.6	7.4	1.3	0.4	1.2	0.88406	2216.4	22.1	2163.7	11.9	2114.1	10.9	-4.8
Spot 133	3142441	3447664	110141.6	2.0	5.4	0.5	12.7	1.2	0.5	1.1	0.89210	2635.4	23.1	2660.7	11.3	2680.0	8.9	1.7
Spot 134	1523671	1671664	166371.9	6.7	7.6	0.6	6.8	1.1	0.4	0.9	0.84267	2061.8	16.7	2086.3	10.0	2110.5	10.6	2.3
Spot 135	730249	801177	352225.6	1.8	7.2	0.6	7.8	1.1	0.4	0.9	0.82648	2209.9	16.6	2204.5	9.6	2199.4	10.5	-0.5
Spot 136	1536098	1685298	384847.4	2.1	5.4	0.5	13.1	0.9	0.5	0.7	0.77950	2709.4	14.9	2689.0	8.1	2673.7	8.9	-1.3
Spot 137	1958377	2148592	93419.8	2.5	5.4	0.6	13.0	1.1	0.5	0.9	0.83825	2665.7	20.5	2677.5	10.6	2686.4	10.1	0.8
Spot 138	1757648	1928367	120418.3	2.6	5.4	0.6	13.0	1.1	0.5	0.9	0.84959	2679.4	19.6	2678.6	9.9	2678.0	9.2	-0.1
Spot 139	1317135	1445067	205691.8	0.9	7.7	0.6	6.9	1.2	0.4	1.0	0.86659	2138.7	18.7	2103.6	10.5	2069.5	10.4	-3.3
Spot 140	1539490	1689019	59948.6	2.0	7.2	0.5	7.3	0.8	0.4	0.7	0.79763	2103.0	12.1	2150.2	7.6	2195.6	8.9	4.2
Spot 141	1212466	1330232	89803.1	2.4	7.2	0.7	7.6	1.2	0.4	0.9	0.80438	2155.7	17.4	2182.0	10.6	2206.8	12.1	2.3
Spot 142	3197269	3507816	105904.2	2.2	6.5	0.5	9.2	1.1	0.4	1.0	0.90114	2339.8	18.9	2355.5	9.8	2369.2	7.9	1.2
Spot 143	1543549	1693473	199673.6	2.1	6.9	0.5	8.6	0.9	0.4	0.8	0.86187	2314.2	15.9	2292.3	8.6	2272.7	8.3	-1.8
Spot 144	1774157	1946479	#####	2.1	7.6	0.5	7.0	1.0	0.4	0.8	0.82857	2117.0	14.3	2112.2	8.5	2107.5	9.4	-0.5
Spot 145	2255967	2475087	184982.7	4.0	7.6	0.6	7.0	1.3	0.4	1.1	0.88992	2099.1	20.3	2106.4	11.3	2113.6	10.2	0.7
Spot 146	2317997	2543142	24160.4	2.2	8.1	0.7	5.6	1.1	0.3	0.8	0.75567	1866.0	13.3	1921.6	9.4	1982.1	12.7	5.9
Spot 147	3705966	4065923	38500.7	7.6	7.4	0.6	6.9	1.1	0.4	0.9	0.81031	2057.4	15.0	2103.6	9.3	2149.1	10.8	4.3
Spot 148	179204	196610	101068.3	11.0	5.8	0.9	12.1	1.6	0.5	1.3	0.83053	2661.9	28.2	2611.8	14.6	2573.2	14.5	-3.4
Spot 149	988202	1084185	106646.9	2.0	7.4	0.6	7.6	1.2	0.4	1.0	0.86446	2215.7	19.3	2183.8	10.7	2154.0	10.5	-2.9
Spot 150	1706011	1871714	283490.6	16.4	7.5	0.7	7.0	1.0	0.4	0.8	0.76118	2106.9	14.2	2115.4	9.2	2123.7	11.8	0.8
Spot 151	1615379	1772279	99035.7	1.2	7.2	0.7	7.8	1.1	0.4	0.9	0.81216	2212.7	17.2	2203.9	10.1	2195.7	11.4	-0.8
Spot 152	2177454	2388948	27510.5	1.8	8.2	0.9	5.5	1.4	0.3	1.1	0.78046	1828.9	17.7	1895.9	12.2	1970.0	15.8	7.2
Spot 153	4274146	4689289	392067.2	2.7	7.6	0.5	6.8	1.4	0.4	1.3	0.93224	2050.7	22.3	2079.4	12.0	2107.9	8.6	2.7
Spot 154	1854210	2034308	367503.8	2.5	7.8	0.6	6.5	1.0	0.4	0.8	0.81026	2038.8	13.5	2044.7	8.4	2050.6	9.8	0.6
Spot 155	1562890	1714692	104628.9	1.7	7.6	0.6	7.0	1.2	0.4	1.1	0.87177	2120.3	19.6	2109.7	11.1	2099.3	10.7	-1.0
Spot 156	2582739	2833598	37482.5	1.3	7.4	0.7	6.7	1.4	0.4	1.2	0.84429	2009.4	20.4	2072.6	12.4	2136.1	13.1	5.9
Spot 157	1378033	1511880	119295.8	1.6	7.6	0.6	6.9	1.1	0.4	1.0	0.84888	2091.2	17.2	2096.7	10.0	2102.0	10.5	0.5
Spot 158	1572817	1725583	291714.1	5.5	7.5	0.7	7.1	1.1	0.4	0.9	0.78619	2130.1	16.2	2128.8	10.1	2127.5	12.3	-0.1
Spot 159	1111096	1219016	89617.9	0.9	5.4	0.5	12.9	1.0	0.5	0.8	0.84394	2645.5	17.8	2670.4	9.1	2689.3	8.6	1.6
Spot 160	1170294	1283964	226913.9	3.4	6.0	0.6	10.7	1.2	0.5	1.0	0.87487	2501.0	21.3	2496.9	10.9	2493.6	9.6	-0.3
Spot 161	2443909	2681284	405773.7	2.4	5.4	0.6	12.8	1.3	0.5	1.2	0.88736	2650.2	25.5	2662.8	12.5	2672.3	10.1	0.8
Spot 162	1013043	1111438	16659.9	3.3	7.9	1.6	6.6	2.1	0.4	1.2	0.59817	2094.2	22.2	2055.4	18.3	2016.7	29.5	-3.8
Spot 163	1527559	1675930	41372.1	1.5	8.4	0.6	5.4	1.2	0.3	1.1	0.85972	1854.4	17.3	1884.5	10.7	1917.8	11.4	3.3
Spot 164	2273113	2493898	97376.0	1.6	8.5	0.7	5.5	1.2	0.3	0.9	0.79284	1898.9	15.3	1900.5	10.1	1902.2	12.8	0.2
Spot 165	1392276	1527507	547103.2	1.5	7.9	0.6	6.2	1.0	0.4	0.8	0.80297	1963.1	13.4	1998.2	8.6	2034.7	10.4	3.5
Spot 166	1097078	1203636	290456.3	2.0	7.5	0.7	7.2	1.2	0.4	1.0	0.82048	2138.4	17.6	2135.3	10.5	2132.3	11.8	-0.3
Spot 167	688967	755885	42269.9	3.1	7.5	0.7	7.1	1.2	0.4	0.9	0.77881	2126.8	16.5	2123.5	10.4	2120.3	12.9	-0.3
Spot 168	638510	700528	238921.7	2.3	4.6	0.7	17.5	1.2	0.6	1.0	0.82883	2984.2	24.4	2961.1	11.8	2945.5	11.1	-1.3
Spot 169	490763	538430	48708.0	1.6	8.2	0.7	6.2	1.3	0.4	1.1	0.82370	2037.7	18.9	1997.8	11.5	1956.8	13.3	-4.1
Spot 170	1501258	1647074	159385.4	11.2	5.8	0.6	11.5	1.2	0.5	1.0	0.85689	2558.3	21.1	2567.0	10.9	2573.8	10.0	0.6

Spot 171	1805906	1981312	18306.3	1.9	8.0	0.9	5.6	1.5	0.3	1.2	0.78713	1836.3	18.4	1918.0	12.6	2007.3	16.0	8.5
Spot 172	916428	1005440	1366660.2	1.8	5.5	0.6	12.8	1.2	0.5	1.0	0.83264	2689.6	21.1	2667.7	10.9	2651.1	10.6	-1.5
Spot 173	3496401	3836003	299452.1	1.8	8.5	0.6	5.4	0.9	0.3	0.8	0.79908	1862.9	12.3	1880.4	8.1	1899.6	10.2	1.9
Spot 174	1773979	1946283	97042.3	1.9	5.4	0.5	13.1	1.0	0.5	0.9	0.83990	2692.4	18.7	2690.4	9.6	2688.9	9.1	-0.1
Spot 175	1599084	1754401	357285.3	1.3	3.8	0.6	23.5	1.1	0.7	0.9	0.85549	3252.4	23.5	3249.9	10.5	3248.3	8.8	-0.1
Spot 176	1600156	1755578	1736361.9	1.8	5.5	0.5	12.9	1.2	0.5	1.1	0.89604	2689.2	23.8	2673.6	11.4	2661.8	8.9	-1.0
Spot 177	1852285	2032196	799695.6	1.7	4.6	0.7	16.7	1.1	0.6	0.9	0.77354	2874.8	20.3	2919.0	10.8	2949.7	11.6	2.5
Spot 178	1755290	1925780	10928.0	2.9	6.9	1.1	7.8	1.7	0.4	1.2	0.74166	2146.6	22.6	2207.5	15.0	2264.5	19.3	5.2
Spot 179	1910558	2096129	154464.1	2.1	5.4	0.5	12.8	0.9	0.5	0.8	0.83434	2650.2	17.1	2662.6	8.9	2672.0	8.6	0.8
Spot 180	1644125	1803817	92018.5	1.6	7.5	0.5	7.0	0.9	0.4	0.7	0.81509	2115.4	13.4	2114.8	8.1	2114.2	9.2	-0.1
Spot 181	1564774	1716758	1071001.0	2.5	5.4	0.8	13.1	1.1	0.5	0.8	0.70509	2695.3	16.8	2687.0	10.2	2680.7	12.7	-0.5
Spot 182	1388286	1523129	116985.2	2.1	8.5	0.6	5.3	1.0	0.3	0.8	0.78937	1840.8	12.5	1869.2	8.5	1901.0	10.9	3.2
Spot 183	647565	710462	90928.5	3.2	8.6	0.7	5.6	1.2	0.4	1.0	0.81657	1953.4	16.3	1914.6	10.2	1872.8	12.3	-4.3
Spot 184	1949691	2139063	113720.1	2.4	7.7	0.6	6.7	1.1	0.4	0.9	0.79758	2069.6	15.0	2068.6	9.4	2067.5	11.3	-0.1
Spot 185	318200	349106	458956.7	1.4	3.7	0.7	24.3	1.3	0.7	1.0	0.82772	3272.4	26.6	3279.7	12.2	3284.2	11.1	0.4
Spot 186	2073975	2275418	97327.1	2.5	7.2	0.7	7.8	1.3	0.4	1.1	0.84921	2222.5	20.4	2206.3	11.5	2191.2	11.8	-1.4
Spot 187	3573834	3920957	245640.1	2.6	5.5	0.7	12.2	1.1	0.5	0.9	0.78882	2577.6	18.9	2621.8	10.6	2656.1	11.5	3.0
Spot 188	1416097	1553642	36138.0	2.1	8.4	0.5	5.7	0.8	0.4	0.6	0.76879	1943.5	10.2	1930.3	6.8	1916.3	9.1	-1.4
Spot 189	1916558	2102711	133451.2	1.8	8.4	0.7	5.6	1.2	0.3	1.0	0.82599	1923.8	16.5	1917.8	10.3	1911.2	12.1	-0.7
Spot 190	941658	1033120	10745.0	1.8	7.1	0.7	7.5	1.1	0.4	0.9	0.77608	2139.1	15.9	2178.9	10.1	2216.6	12.3	3.5
Spot 191	2146719	2355227	209283.9	2.4	5.4	0.6	12.9	1.2	0.5	1.0	0.86216	2659.3	22.6	2670.7	11.3	2679.3	10.1	0.7
Spot 192	2317707	2542823	227884.8	2.0	7.6	0.7	6.9	1.4	0.4	1.1	0.84976	2092.2	20.5	2094.7	12.0	2097.2	12.5	0.2
Spot 193	536604	588724	36158.9	2.8	7.5	0.6	7.2	1.1	0.4	0.9	0.83296	2138.8	16.0	2130.3	9.4	2122.1	10.2	-0.8
Spot 194	2501023	2743945	107305.4	1.7	5.6	0.6	12.3	1.1	0.5	0.9	0.83167	2627.7	19.8	2630.9	10.3	2633.3	10.2	0.2
Spot 195	1588007	1742249	74069.0	1.1	7.9	0.7	6.4	1.1	0.4	0.9	0.76634	2027.3	14.9	2031.4	9.8	2035.5	12.7	0.4
Spot 196	2128153	2334858	163818.2	2.5	5.6	0.5	12.3	0.9	0.5	0.8	0.86612	2634.2	17.7	2631.1	8.9	2628.7	7.8	-0.2
Spot 197	1347732	1478636	41290.9	2.6	8.3	0.7	5.6	1.1	0.3	0.9	0.80773	1908.2	15.1	1918.4	9.8	1929.3	12.0	1.1
Spot 198	632312	693728	560583.2	2.0	4.2	0.7	19.6	1.1	0.6	0.9	0.79879	3056.3	21.3	3070.4	10.6	3079.6	10.5	0.8
Spot 199	2073244	2274617	200351.5	2.7	6.9	0.6	8.4	1.1	0.4	1.0	0.85045	2277.9	18.6	2271.9	10.4	2266.5	10.4	-0.5
Spot 200	962940	1056469	184104.5	4.8	5.0	0.6	15.2	1.2	0.6	1.0	0.86896	2855.0	23.6	2829.7	11.2	2811.7	9.5	-1.5
Spot 201	1929786	2117224	159037.0	1.9	7.1	0.7	7.7	1.1	0.4	0.8	0.72629	2181.5	14.2	2199.9	9.5	2217.1	12.6	1.6
Spot 202	512022	561754	75246.6	2.5	7.6	0.8	7.2	1.3	0.4	1.0	0.78250	2186.9	18.3	2138.1	11.2	2091.6	13.8	-4.6
Spot 203	2320630	2546031	27766.1	3.4	7.1	0.8	8.0	1.2	0.4	0.9	0.75112	2244.3	16.5	2232.5	10.5	2221.8	13.3	-1.0
Spot 204	581289	637749	356101.1	2.2	7.2	0.8	7.7	1.3	0.4	1.0	0.79332	2185.0	19.0	2194.0	11.6	2202.4	13.7	0.8
Spot 205	1678243	1841249	12538.1	1.7	7.9	0.8	5.9	1.0	0.3	0.6	0.58208	1899.6	9.6	1956.0	8.7	2016.3	14.5	5.8
Spot 206	1566882	1719072	95805.2	2.0	7.6	0.7	7.0	1.1	0.4	0.9	0.80429	2129.8	16.4	2108.3	10.0	2087.4	11.8	-2.0
Spot 207	1291999	1417489	253624.5	1.5	7.5	0.6	7.5	1.1	0.4	0.9	0.83002	2219.0	17.2	2167.4	9.9	2119.0	10.8	-4.7
Spot 208	1061294	1164376	195656.2	1.6	5.5	0.6	12.7	1.1	0.5	1.0	0.84798	2646.0	20.9	2654.3	10.7	2660.7	10.0	0.6
Spot 209	2583358	2834277	45688.4	1.5	8.3	0.4	5.2	0.8	0.3	0.7	0.85380	1788.2	11.3	1857.2	7.2	1935.3	7.9	7.6
Spot 210	570215	625600	114295.8	2.3	7.4	0.7	7.3	1.4	0.4	1.2	0.86998	2164.6	22.1	2154.1	12.3	2144.1	11.9	-1.0
Spot 211	358975	393842	97810.7	0.7	7.5	0.7	6.9	1.6	0.4	1.4	0.89738	2085.2	25.0	2104.6	13.9	2123.7	12.1	1.8
Spot 212	1403207	1539499	96126.5	3.5	7.1	0.7	8.0	1.2	0.4	0.9	0.77727	2229.0	16.9	2228.0	10.4	2227.1	12.5	-0.1
Spot 213	1711070	1877265	168608.5	3.1	7.8	0.5	6.7	0.9	0.4	0.7	0.83082	2086.2	13.1	2073.9	7.8	2061.7	8.7	-1.2

Spot 214	2442231	2679443	1056965.1	3.2	7.6	0.6	6.9	1.2	0.4	1.1	0.87184	2100.4	19.0	2102.9	10.8	2105.3	10.5	0.2
Spot 215	1544768	1694810	143722.4	2.3	8.5	0.7	5.6	1.1	0.3	0.9	0.76738	1921.9	14.4	1910.5	9.7	1898.1	13.0	-1.3
Spot 216	2705469	2968249	89146.6	3.1	7.4	0.5	7.1	1.0	0.4	0.9	0.84798	2121.6	15.8	2128.8	9.2	2135.8	9.6	0.7
Spot 217	1227220	1346419	75828.2	3.3	5.4	0.6	13.5	1.1	0.5	0.9	0.85699	2740.5	20.8	2715.4	10.3	2696.7	9.3	-1.6
Spot 218	612893	672422	3539.7	1.4	4.7	1.2	15.2	1.6	0.5	1.0	0.63744	2749.5	22.9	2828.7	15.3	2885.5	20.1	4.7
Spot 219	1568777	1721150	274380.4	2.9	5.4	0.5	13.2	1.0	0.5	0.9	0.86241	2711.7	20.0	2695.9	9.9	2684.0	8.8	-1.0
Spot 220	2872864	3151902	579608.4	1.9	7.7	0.7	6.7	1.1	0.4	0.8	0.77780	2062.5	14.8	2066.5	9.5	2070.5	11.9	0.4
Spot 221	586707	643693	30785.8	3.9	7.6	0.7	7.1	1.2	0.4	1.0	0.79995	2173.0	18.2	2129.8	11.0	2088.3	13.0	-4.1
Spot 222	1249733	1371118	155916.4	2.7	7.6	0.6	7.0	1.1	0.4	1.0	0.83649	2130.6	17.4	2113.6	10.2	2097.0	11.1	-1.6
Spot 223	1013153	1111560	60480.0	1.1	7.4	0.8	7.5	1.3	0.4	1.0	0.79831	2179.6	19.3	2168.9	11.7	2158.7	13.8	-1.0
Spot 224	1040752	1141839	159720.2	1.5	7.5	0.6	7.1	1.3	0.4	1.2	0.90263	2118.6	21.8	2125.5	11.9	2132.2	10.1	0.6
Spot 225	1864024	2045075	108286.5	3.7	7.5	0.6	7.4	1.2	0.4	1.0	0.87385	2201.9	19.1	2166.0	10.5	2132.1	10.0	-3.3
Spot 226	2532978	2779004	9252.5	2.6	5.1	0.8	12.4	1.5	0.5	1.3	0.86686	2470.6	26.8	2638.4	14.2	2769.8	12.3	10.8
Spot 227	1409111	1545977	73783.2	1.9	8.5	0.7	5.5	1.2	0.3	1.0	0.83005	1878.4	16.1	1893.4	10.2	1909.7	11.9	1.6
Spot 228	1406968	1543626	45933.3	1.4	8.4	0.6	5.6	0.9	0.3	0.7	0.78765	1905.7	11.7	1911.8	7.7	1918.3	9.9	0.7
Spot 229	1746121	1915720	105842.4	3.4	7.8	0.6	6.8	1.1	0.4	0.9	0.82712	2118.9	15.7	2082.0	9.3	2045.7	10.5	-3.6
Spot 230	3106459	3408187	10229.2	8.0	6.6	1.1	8.0	1.5	0.4	0.9	0.64320	2129.5	17.1	2231.0	13.3	2325.5	19.3	8.4
Spot 231	2376053	2606836	118675.7	2.8	5.4	0.6	13.3	1.1	0.5	1.0	0.85127	2729.3	21.7	2699.8	10.8	2677.7	9.9	-1.9
Spot 232	762091	836112	75338.8	1.7	8.4	0.6	5.7	1.2	0.4	1.1	0.86039	1934.9	18.0	1925.6	10.8	1915.7	11.4	-1.0
Spot 233	2341270	2568676	108399.3	2.3	5.4	0.6	12.8	1.0	0.5	0.8	0.79444	2640.9	17.9	2668.4	9.8	2689.3	10.4	1.8
Spot 234	2731621	2996941	140635.3	2.1	8.5	0.6	5.6	1.0	0.3	0.8	0.80687	1908.3	13.3	1909.7	8.6	1911.1	10.6	0.1
Spot 235	832233	913067	28714.0	0.8	5.4	0.6	12.9	1.1	0.5	1.0	0.87102	2660.5	21.4	2670.8	10.6	2678.5	9.2	0.7
Spot 236	1574200	1727100	595303.8	1.9	8.6	0.7	5.5	1.0	0.3	0.8	0.76038	1913.6	12.9	1901.0	8.8	1887.3	12.0	-1.4
Spot 237	1374905	1508449	81300.6	2.8	5.4	0.5	13.1	0.9	0.5	0.8	0.81339	2675.8	16.6	2683.8	8.8	2689.9	8.9	0.5
Spot 238	592739	650311	1489373.4	1.8	5.6	0.7	12.4	1.2	0.5	1.0	0.83436	2634.2	22.1	2634.2	11.5	2634.2	11.2	0.0
Spot 239	910591	999036	119974.1	3.9	7.7	0.6	7.0	1.1	0.4	0.9	0.82422	2134.8	16.9	2107.0	10.0	2079.9	11.2	-2.6
Spot 240	1979110	2171339	89384.5	2.4	8.6	0.6	5.4	1.0	0.3	0.8	0.76512	1894.3	12.5	1892.7	8.5	1890.9	11.5	-0.2
Spot 241	1956605	2146649	13531.8	2.2	7.5	0.8	6.7	1.0	0.4	0.7	0.66695	2021.1	11.7	2072.4	8.9	2123.8	13.2	4.8
Spot 242	2247413	2465702	123093.6	1.5	7.6	0.7	7.0	1.3	0.4	1.1	0.85259	2110.2	20.6	2109.3	12.0	2108.4	12.3	-0.1
Spot 243	3433614	3767117	27444.5	2.3	7.3	0.8	7.0	1.5	0.4	1.3	0.85708	2050.0	22.6	2113.9	13.3	2176.7	13.4	5.8
Spot 244	1798128	1972779	209316.6	4.3	4.9	0.6	15.6	1.2	0.6	1.1	0.87890	2857.5	24.7	2854.9	11.6	2853.1	9.5	-0.2
Spot 245	804839	883012	107278.3	1.4	7.8	0.7	6.8	1.2	0.4	1.0	0.80621	2112.2	17.5	2080.5	10.7	2049.2	12.6	-3.1
Spot 246	622569	683039	136101.1	1.2	5.4	0.6	13.0	1.3	0.5	1.1	0.87635	2680.6	24.1	2679.3	11.8	2678.3	10.0	-0.1
Spot 247	1519929	1667559	141810.7	2.1	8.2	0.7	6.0	1.1	0.4	0.8	0.78094	1984.7	14.5	1979.1	9.5	1973.2	12.1	-0.6
Spot 248	1172772	1286682	59583.6	2.4	8.4	0.6	5.8	1.1	0.4	0.9	0.85351	1968.4	15.6	1941.2	9.3	1912.3	10.1	-2.9
Spot 249	2790878	3061953	159552.5	2.2	8.5	0.4	5.5	1.0	0.3	0.9	0.91339	1882.3	15.2	1895.6	8.8	1910.1	7.5	1.5
Spot 250	1790531	1964443	415629.8	2.8	5.5	0.5	13.2	1.0	0.5	0.9	0.84568	2736.7	19.3	2697.4	9.7	2668.0	9.1	-2.6
Spot 251	1302066	1428534	21650.3	1.7	7.4	0.6	7.0	1.1	0.4	0.9	0.79733	2083.5	15.3	2113.5	9.6	2142.8	11.3	2.8
Spot 252	1729109	1897056	548218.9	0.8	8.6	0.6	5.4	1.1	0.3	0.8	0.79343	1891.5	13.9	1885.1	9.1	1878.0	11.7	-0.7
Spot 253	3044449	3340153	248114.3	2.5	7.6	0.6	6.8	1.1	0.4	0.9	0.81514	2079.0	15.6	2090.8	9.5	2102.4	10.9	1.1
Spot 254	301032	330271	166666.8	1.6	7.3	0.7	7.7	1.4	0.4	1.2	0.85690	2210.9	22.0	2191.7	12.3	2173.7	12.3	-1.7
Spot 255	1573460	1726288	210964.2	2.6	5.4	0.7	13.0	1.2	0.5	1.0	0.83191	2683.8	22.4	2677.4	11.6	2672.6	11.3	-0.4
Spot 256	1243912	1364732	119632.9	1.9	7.7	0.7	6.8	1.2	0.4	0.9	0.78521	2101.1	16.9	2087.9	10.6	2074.9	13.1	-1.3

Spot 257	1570372	1722901	398883.2	1.3	3.9	0.6	23.2	1.0	0.7	0.8	0.79668	3247.5	20.6	3233.7	9.9	3225.1	9.7	-0.7
Spot 258	706042	774619	45444.9	1.2	8.1	0.6	6.0	0.9	0.4	0.7	0.75680	1976.7	11.8	1981.2	8.0	1985.9	10.7	0.5
Spot 259	1879722	2062297	645584.4	2.3	5.4	0.5	13.1	1.1	0.5	1.0	0.89249	2709.0	21.8	2689.1	10.4	2674.1	8.2	-1.3
Spot 260	1498733	1644304	1633833.2	2.4	5.6	0.7	12.6	1.1	0.5	0.8	0.78638	2702.8	18.7	2653.7	10.1	2616.5	11.1	-3.3
Spot 261	1869511	2051094	285633.7	2.3	7.5	0.7	7.2	1.2	0.4	1.0	0.84077	2150.0	18.7	2130.8	10.8	2112.4	11.5	-1.8
Spot 262	2124097	2330408	330629.6	2.1	5.4	0.7	13.0	1.4	0.5	1.3	0.88337	2680.6	28.0	2679.8	13.6	2679.2	11.2	-0.1
Spot 263	864414	948373	20128.1	1.1	6.9	2.3	7.6	2.4	0.4	0.7	0.27884	2093.7	11.9	2183.0	21.4	2268.0	39.4	7.7
Spot 264	1604356	1760186	116424.9	2.1	7.6	0.6	7.0	1.1	0.4	1.0	0.85650	2109.5	17.4	2107.7	10.0	2106.0	10.2	-0.2
Spot 265	1907088	2092321	224002.9	1.7	5.3	0.6	13.5	1.1	0.5	0.9	0.83731	2731.2	19.8	2713.1	10.0	2699.6	9.6	-1.2
Spot 266	2706475	2969353	634340.6	3.0	7.6	0.6	6.8	1.1	0.4	0.9	0.83734	2068.0	15.7	2080.3	9.4	2092.6	10.2	1.2
Spot 267	1308596	1435698	119735.2	2.5	5.4	0.6	13.2	1.1	0.5	1.0	0.86354	2710.2	21.5	2693.5	10.6	2680.9	9.4	-1.1
Spot 268	1252620	1374285	102456.7	2.3	5.4	0.4	13.4	0.9	0.5	0.8	0.87097	2745.5	17.0	2705.8	8.2	2676.3	7.1	-2.6
Spot 269	1815563	1991907	86313.9	1.6	7.1	0.6	7.7	1.0	0.4	0.8	0.82360	2172.9	15.6	2191.8	9.2	2209.5	10.1	1.7
Spot 270	2018835	2214922	150568.0	2.1	8.6	0.5	5.5	1.1	0.3	1.0	0.90469	1924.5	16.8	1903.8	9.6	1881.3	8.6	-2.3
Spot 271	707062	775738	20135.8	2.5	8.1	1.0	6.1	1.5	0.4	1.2	0.76077	1987.4	19.7	1988.2	13.2	1989.0	17.5	0.1
Spot 272	674179	739661	57811.8	2.9	7.7	0.6	7.1	1.2	0.4	1.0	0.85079	2160.5	18.4	2120.6	10.5	2082.1	10.9	-3.8
Spot 273	1191702	1307450	171000.5	1.2	8.0	0.8	6.2	1.1	0.4	0.7	0.67050	2016.0	12.6	2008.0	9.5	1999.8	14.4	-0.8
Spot 274	2362765	2592258	248359.6	5.4	7.4	0.5	7.3	0.9	0.4	0.8	0.84027	2164.1	14.4	2150.0	8.3	2136.6	8.8	-1.3
Spot 275	1221596	1340249	211012.4	2.8	7.6	0.6	7.0	1.1	0.4	0.9	0.82542	2119.5	15.8	2107.1	9.4	2095.1	10.5	-1.2
Spot 276	845507	927631	5479.2	0.8	6.8	1.0	6.9	1.3	0.4	0.8	0.61045	1947.9	13.3	2103.1	11.5	2258.6	17.7	13.8
Spot 277	938351	1029492	54840.9	2.1	7.2	1.0	7.9	1.4	0.4	1.0	0.73220	2247.4	19.6	2221.3	12.7	2197.3	16.7	-2.3
Spot 278	873829	958703	92384.0	2.4	7.2	0.6	8.1	1.2	0.4	1.1	0.86273	2291.7	20.6	2242.0	11.2	2196.9	10.9	-4.3
Spot 279	956801	1049734	1215876.4	2.3	7.6	0.5	7.0	1.1	0.4	0.9	0.86683	2126.3	16.9	2111.0	9.6	2096.1	9.4	-1.4
Spot 280	811901	890760	71681.6	2.3	7.6	0.7	7.0	1.2	0.4	1.0	0.83155	2107.0	18.2	2107.4	10.8	2107.7	11.9	0.0
Spot 281	688848	755755	104447.9	2.6	7.2	0.8	7.5	1.2	0.4	0.9	0.77975	2145.2	17.0	2173.1	10.7	2199.6	13.0	2.5
Spot 282	1484155	1628310	93348.3	1.7	8.5	0.5	5.5	1.0	0.3	0.8	0.85625	1903.1	13.4	1902.9	8.2	1902.6	8.8	0.0
Spot 283	1808243	1983876	387402.8	2.5	5.5	0.6	12.8	1.0	0.5	0.8	0.83746	2670.5	18.5	2667.9	9.5	2665.9	9.1	-0.2
Spot 284	2684574	2945324	445836.5	2.6	7.8	0.6	6.8	1.1	0.4	0.9	0.83607	2117.1	16.1	2090.0	9.5	2063.4	10.3	-2.6
Spot 285	1444663	1584982	745362.6	2.3	4.1	0.5	21.3	1.0	0.6	0.8	0.84041	3165.0	20.5	3150.1	9.5	3140.7	8.4	-0.8
Spot 286	1431704	1570764	126895.5	2.0	8.6	0.6	5.5	1.2	0.3	1.0	0.85649	1906.8	16.4	1894.2	9.9	1880.3	10.8	-1.4
Spot 287	1726282	1893955	427648.3	1.9	4.1	0.3	21.6	0.9	0.7	0.8	0.91896	3232.2	19.9	3164.9	8.3	3122.4	5.3	-3.5
Spot 288	2086495	2289155	123783.9	2.6	8.5	0.6	5.5	1.0	0.3	0.8	0.79297	1897.5	13.6	1896.8	9.0	1896.0	11.5	-0.1
Spot 289	1387930	1522738	51736.3	1.7	8.3	0.6	5.5	1.3	0.3	1.1	0.85853	1875.0	17.6	1905.8	10.8	1939.5	11.5	3.3
Spot 291	880873	966431	282348.0	1.7	8.5	0.8	5.7	1.2	0.4	1.0	0.78440	1941.1	16.2	1923.9	10.6	1905.4	13.7	-1.9
Spot 292	1529522	1678083	93190.3	2.6	5.4	0.6	13.0	1.3	0.5	1.1	0.88128	2676.3	24.2	2681.7	11.8	2685.7	9.8	0.4
Spot 293	1459593	1601362	623967.3	3.1	7.6	0.6	7.0	1.1	0.4	0.9	0.84252	2115.3	16.4	2109.5	9.6	2103.9	10.2	-0.5
Spot 294	1483389	1627469	23352.5	0.9	8.2	0.5	5.6	0.8	0.3	0.7	0.77990	1883.5	10.7	1917.1	7.3	1953.6	9.4	3.6
Spot 295	1630585	1788962	39092.8	2.0	8.5	0.4	5.5	0.7	0.3	0.6	0.83578	1914.0	10.4	1904.8	6.4	1894.8	7.4	-1.0
Spot 296	1100833	1207756	15397.6	2.8	5.2	0.6	14.1	0.9	0.5	0.7	0.79514	2781.7	16.9	2759.5	8.9	2743.4	9.4	-1.4
Spot 297	1231414	1351020	93509.7	2.6	7.5	0.7	7.2	1.4	0.4	1.2	0.84673	2153.2	21.2	2130.8	12.2	2109.3	12.8	-2.1
Spot 298	2341604	2569042	570803.6	1.3	4.2	0.6	20.2	1.1	0.6	0.9	0.86127	3125.0	23.5	3102.3	10.7	3087.6	8.9	-1.2
Spot 299	878504	963832	53038.0	2.8	7.6	0.7	7.0	1.1	0.4	0.8	0.74000	2119.6	14.4	2107.0	9.6	2094.6	12.7	-1.2
Spot 300	1790088	1963957	58064.5	2.9	7.3	0.6	7.4	1.0	0.4	0.9	0.82718	2173.3	15.7	2163.1	9.2	2153.5	10.1	-0.9

Spot 301	804027	882121	349684.6	2.0	7.2	0.6	7.6	1.3	0.4	1.1	0.86611	2190.6	20.7	2184.6	11.5	2178.9	11.2	-0.5
Spot 302	938689	1029863	10073.1	1.8	6.8	1.3	7.8	1.5	0.4	0.7	0.45864	2156.5	12.2	2210.8	13.1	2261.5	22.3	4.6
Spot 303	977532	1072479	44499.2	1.0	7.4	0.8	7.6	1.3	0.4	1.0	0.78632	2228.4	18.7	2180.8	11.3	2136.4	13.6	-4.3
Spot 304	1831025	2008871	90878.4	2.3	5.5	0.8	12.4	1.3	0.5	1.0	0.77188	2624.7	20.8	2633.2	11.8	2639.6	13.2	0.6
Spot 305	906562	994616	1087638.6	1.9	7.7	0.7	6.9	1.0	0.4	0.8	0.74553	2126.0	14.0	2098.4	9.2	2071.4	12.2	-2.6
Spot 306	1756508	1927116	546324.6	2.8	8.6	0.5	5.6	1.0	0.4	0.8	0.84593	1937.6	14.1	1910.4	8.5	1881.0	9.5	-3.0
Spot 307	1171797	1285612	2730034.7	2.2	7.6	0.6	7.1	1.1	0.4	0.9	0.82872	2157.5	17.4	2120.4	10.2	2084.5	11.3	-3.5
Spot 308	1893977	2077937	66840.3	1.4	6.8	0.7	8.5	1.4	0.4	1.2	0.86829	2275.7	23.6	2282.4	12.9	2288.5	12.1	0.6
Spot 309	528134	579431	26651.0	2.0	6.7	1.8	8.3	2.1	0.4	1.0	0.50081	2206.7	19.4	2262.0	18.8	2312.4	30.8	4.6
Spot 310	555504	609460	138489.9	2.4	7.1	0.7	8.1	1.4	0.4	1.2	0.85224	2287.8	23.0	2244.0	12.7	2204.2	12.8	-3.8
Spot 311	1571534	1724176	127463.0	1.1	7.9	0.6	6.5	1.2	0.4	1.1	0.87874	2053.5	19.1	2042.3	10.9	2030.9	10.4	-1.1
Spot 312	2341799	2569256	33916.5	1.5	8.2	0.5	5.5	1.0	0.3	0.9	0.86401	1843.2	14.1	1897.7	8.7	1957.8	9.2	5.9
Spot 313	1659005	1820142	69530.4	2.5	5.1	0.6	14.4	1.0	0.5	0.8	0.82695	2775.0	18.9	2773.2	9.6	2771.9	9.4	-0.1
Spot 314	2144383	2352665	102764.3	4.7	7.3	0.6	7.6	1.0	0.4	0.8	0.81885	2200.7	14.8	2186.1	8.7	2172.3	9.7	-1.3
Spot 315	2022856	2219334	55917.5	2.5	8.5	0.5	5.5	0.8	0.3	0.7	0.81175	1921.3	11.4	1906.0	7.3	1889.3	8.9	-1.7
Run 1 (discordant)																		
Spot 11	886085	972150	91490.3	4.2	7.5	0.8	7.8	1.2	0.4	0.9	0.75436	2266.1	17.2	2204.6	10.7	2147.8	13.7	-5.5
Spot 20	1458949	1600656	78127.7	2.0	7.7	0.5	7.3	0.9	0.4	0.7	0.80372	2198.9	13.4	2145.0	8.0	2093.7	9.4	-5.0
Spot 290	461315	506122	34915.6	2.4	8.8	0.8	5.7	1.3	0.4	1.0	0.79035	1998.6	17.9	1931.0	11.4	1859.1	14.6	-7.5
Spot 41	888001	974252	112086.1	2.6	8.8	0.6	5.6	1.0	0.4	0.8	0.77982	1960.5	13.6	1915.2	8.9	1866.4	11.7	-5.0
Run 2																		
Spot 1	2582385	2598204	115833.2	1.5	8.4	0.6	5.6	1.3	0.3	1.1	0.87690	1906.2	18.7	1910.1	11.1	1914.3	11.1	0.4
Spot 2	1410269	1418908	56335.3	2.7	5.4	0.5	13.5	1.2	0.5	1.1	0.90729	2767.9	25.0	2713.8	11.6	2673.8	8.5	-3.5
Spot 3	3011890	3030340	68211.0	1.6	8.5	0.7	5.5	1.7	0.3	1.5	0.91304	1908.2	25.1	1904.7	14.3	1901.0	12.2	-0.4
Spot 5	1458657	1467592	17602.8	2.3	7.4	0.4	7.4	0.7	0.4	0.6	0.82779	2171.4	11.2	2159.7	6.6	2148.6	7.2	-1.1
Spot 6	1446005	1454862	1222578.3	2.9	5.5	0.6	13.4	1.3	0.5	1.2	0.88789	2769.6	26.5	2710.2	12.5	2666.2	10.1	-3.9
Spot 7	1654102	1664235	37800.9	1.8	5.6	0.6	11.6	1.2	0.5	1.0	0.86550	2523.8	21.8	2570.0	11.3	2606.7	10.1	3.2
Spot 8	1668375	1678595	44614.7	2.3	8.3	0.6	4.9	1.1	0.3	0.9	0.82717	1675.8	13.5	1798.1	9.3	1943.1	11.1	13.8
Spot 9	1581809	1591499	122205.7	2.4	8.4	0.7	5.7	1.2	0.3	1.0	0.82287	1919.9	16.5	1923.8	10.4	1928.1	12.3	0.4
Spot 10	1288935	1296831	15702.8	1.6	7.7	0.7	6.4	1.0	0.4	0.7	0.71187	1990.6	12.4	2036.1	8.9	2082.5	12.6	4.4
Spot 11	2006378	2018668	14728.3	1.8	5.2	0.4	13.6	0.9	0.5	0.8	0.87674	2690.8	16.7	2722.3	8.2	2745.7	6.9	2.0
Spot 12	1338023	1346219	190142.2	2.2	8.5	0.7	5.7	1.2	0.4	0.9	0.78387	1953.0	15.9	1928.1	10.4	1901.5	13.4	-2.7
Spot 13	1159205	1166306	115907.2	3.3	7.6	0.8	7.2	1.1	0.4	0.8	0.70528	2168.7	14.7	2140.9	10.1	2114.2	14.1	-2.6
Spot 14	1808031	1819107	184651.4	2.3	7.4	0.7	7.2	1.2	0.4	0.9	0.80967	2134.6	17.0	2139.3	10.3	2143.9	11.9	0.4
Spot 15	1062710	1069219	151211.4	1.3	7.3	0.6	7.7	1.1	0.4	0.9	0.82768	2205.7	17.5	2191.5	10.1	2178.2	11.0	-1.3
Spot 16	509680	512802	1993352.2	2.5	5.3	0.7	13.0	1.1	0.5	0.8	0.76441	2625.3	18.0	2679.2	10.3	2720.2	11.6	3.5
Spot 17	2342483	2356833	23012.8	1.7	8.1	0.9	5.7	1.4	0.3	1.1	0.78049	1873.7	17.8	1931.0	12.1	1993.2	15.6	6.0
Spot 18	1982095	1994236	88996.3	0.9	7.7	0.5	6.8	1.0	0.4	0.8	0.84241	2082.9	14.7	2084.5	8.7	2086.0	9.3	0.1
Spot 19	2016599	2028953	44186.3	2.4	8.2	0.7	5.6	1.1	0.3	0.9	0.78454	1889.6	14.2	1922.1	9.5	1957.3	12.2	3.5
Spot 20	1285807	1293684	179624.3	2.8	5.4	0.6	13.2	0.9	0.5	0.7	0.78328	2693.7	16.0	2693.2	8.8	2692.8	9.5	0.0
Spot 21	855819	861061	22835.7	2.1	5.5	0.6	12.8	1.0	0.5	0.8	0.82776	2681.2	17.9	2667.6	9.3	2657.4	9.2	-0.9
Spot 22	1472969	1481992	18540.2	1.1	8.1	1.1	5.3	1.4	0.3	0.8	0.56034	1788.6	12.1	1874.7	11.8	1971.5	20.4	9.3
Spot 23	1654324	1664458	21713.3	3.3	7.2	0.6	7.4	1.1	0.4	0.9	0.84557	2126.7	16.3	2163.2	9.5	2197.9	9.9	3.2

Spot 24	1662661	1672846	69578.7	2.7	8.4	0.7	5.6	1.1	0.3	0.9	0.78281	1907.7	14.5	1915.4	9.7	1923.7	12.5	0.8
Spot 26	2122622	2135624	9603.0	2.0	6.3	1.5	9.1	1.8	0.4	1.0	0.56415	2283.4	19.3	2352.8	16.3	2413.6	25.0	5.4
Spot 27	1942342	1954240	20460.8	1.9	8.1	0.8	5.9	1.1	0.3	0.7	0.67096	1922.8	11.9	1955.6	9.3	1990.6	14.1	3.4
Spot 28	3053581	3072287	94904.0	2.6	7.1	0.7	7.8	1.3	0.4	1.2	0.86219	2197.2	21.5	2206.9	12.0	2215.9	11.8	0.8
Spot 29	2092932	2105752	50944.2	2.2	8.4	0.6	5.6	1.2	0.3	1.0	0.83013	1908.8	16.0	1911.6	10.0	1914.6	11.7	0.3
Spot 30	2170889	2184187	596954.4	2.0	7.2	0.5	7.8	1.0	0.4	0.9	0.84496	2217.6	16.0	2208.5	9.1	2200.2	9.4	-0.8
Spot 31	2178561	2191906	20353.7	2.2	7.1	0.7	7.6	1.9	0.4	1.8	0.92523	2159.2	32.8	2184.0	17.3	2207.4	12.7	2.2
Spot 32	1484601	1493695	64820.8	2.5	7.5	0.4	7.3	1.0	0.4	0.9	0.89378	2176.5	16.1	2150.3	8.7	2125.3	7.7	-2.4
Spot 34	1810937	1822030	30765.8	1.9	8.2	0.8	5.6	1.3	0.3	1.1	0.80416	1875.2	17.4	1921.6	11.5	1971.9	14.1	4.9
Spot 35	1186655	1193924	121370.8	1.1	5.4	0.5	12.9	0.9	0.5	0.7	0.78849	2664.9	15.0	2675.1	8.2	2682.9	8.9	0.7
Spot 36	1012919	1019124	120369.1	1.8	5.7	0.6	12.1	1.3	0.5	1.2	0.88350	2632.0	25.2	2612.7	12.4	2597.7	10.3	-1.3
Spot 37	1853958	1865315	170002.2	2.2	5.4	0.3	13.2	0.7	0.5	0.6	0.88204	2732.6	14.5	2696.7	7.0	2669.9	5.7	-2.4
Spot 38	912683	918274	111264.7	2.2	7.1	0.8	7.8	1.5	0.4	1.2	0.83401	2211.3	22.8	2210.1	13.1	2209.1	14.0	-0.1
Spot 39	1252382	1260054	97383.4	2.7	7.1	0.8	8.0	1.1	0.4	0.7	0.65888	2250.8	13.2	2232.1	9.5	2215.1	13.7	-1.6
Spot 40	2193242	2206677	39290.1	1.1	8.4	0.6	5.6	1.0	0.3	0.8	0.76466	1910.0	12.4	1912.0	8.5	1914.1	11.4	0.2
Spot 42	2707827	2724415	97091.7	2.2	8.5	0.6	5.5	1.2	0.3	1.0	0.86934	1891.7	16.5	1895.6	9.9	1899.9	10.3	0.4
Spot 43	1658789	1668951	58948.4	2.2	8.6	0.6	5.5	1.2	0.3	1.1	0.88037	1931.9	18.2	1903.2	10.6	1872.1	10.6	-3.2
Spot 44	1355615	1363919	1133305.5	2.2	8.4	0.5	5.7	1.1	0.4	1.0	0.91100	1956.9	16.9	1936.8	9.5	1915.3	8.2	-2.2
Spot 45	1348798	1357060	105735.8	2.1	7.6	0.5	7.2	1.1	0.4	1.0	0.88225	2161.3	18.1	2131.8	10.0	2103.5	9.3	-2.7
Spot 46	1381674	1390138	109310.5	2.6	5.4	0.6	13.2	1.2	0.5	1.1	0.87145	2711.9	23.3	2695.4	11.4	2682.9	9.8	-1.1
Spot 47	2369180	2383692	94988.5	1.5	7.2	0.6	7.7	1.0	0.4	0.9	0.84131	2202.8	16.2	2202.4	9.3	2201.9	9.7	0.0
Spot 48	1651253	1661368	250557.6	2.5	5.5	0.6	13.3	0.9	0.5	0.7	0.80300	2743.0	16.8	2697.9	8.8	2664.3	9.2	-3.0
Spot 50	950327	956149	221999.8	1.7	6.9	0.8	8.3	1.5	0.4	1.3	0.84714	2270.3	24.7	2265.9	13.8	2261.8	14.0	-0.4
Spot 51	2021245	2033627	235994.3	3.1	6.2	0.4	10.4	1.1	0.5	1.0	0.91802	2500.6	21.0	2470.0	10.2	2444.8	7.4	-2.3
Spot 52	2284056	2298048	166780.1	3.6	8.5	0.7	5.4	1.3	0.3	1.1	0.85775	1871.1	17.9	1880.8	11.0	1891.5	11.9	1.1
Spot 53	1661570	1671749	836543.2	2.6	8.5	0.7	5.4	1.2	0.3	1.0	0.83111	1893.4	16.3	1891.3	10.2	1888.9	11.9	-0.2
Spot 54	925715	931385	3154480.4	1.7	6.9	0.7	8.3	1.1	0.4	0.8	0.75049	2273.9	15.6	2264.7	9.8	2256.4	12.4	-0.8
Spot 55	1814875	1825992	1870801.7	0.9	7.3	0.6	7.4	1.1	0.4	0.9	0.81826	2160.6	16.4	2160.1	9.8	2159.7	11.0	0.0
Spot 56	1645846	1655928	102978.4	1.5	7.2	0.7	7.7	1.2	0.4	0.9	0.78935	2209.5	17.1	2194.0	10.4	2179.5	12.4	-1.4
Spot 57	1989094	2001279	431116.9	2.5	8.4	0.6	5.7	1.4	0.4	1.2	0.89404	1935.5	20.3	1930.1	11.8	1924.3	10.9	-0.6
Spot 58	1248756	1256406	267616.0	3.1	5.5	0.5	12.8	0.9	0.5	0.7	0.80989	2669.4	16.3	2663.5	8.7	2659.0	9.0	-0.4
Spot 59	2072702	2085399	715187.0	2.6	4.6	0.7	16.9	1.2	0.6	1.0	0.82990	2930.7	23.0	2931.8	11.3	2932.6	10.6	0.1
Spot 60	1308538	1316554	3754523.2	1.9	7.7	0.5	6.9	1.1	0.4	1.0	0.88258	2124.2	18.3	2103.0	10.2	2082.3	9.5	-2.0
Spot 61	1373586	1382001	71735.9	2.6	5.3	0.6	13.5	1.1	0.5	0.9	0.83614	2729.4	19.6	2717.0	10.0	2707.8	9.5	-0.8
Spot 62	1308221	1316235	114036.8	2.5	8.2	0.8	6.2	1.4	0.4	1.2	0.83945	2030.1	20.8	1998.3	12.4	1965.6	13.8	-3.3
Spot 63	1795862	1806863	55943.0	1.0	8.3	0.7	5.5	1.0	0.3	0.8	0.74757	1858.4	12.6	1897.4	8.9	1940.2	12.4	4.2
Spot 64	1356560	1364870	48460.2	1.4	8.3	0.7	5.8	1.2	0.4	1.0	0.82605	1966.7	17.4	1952.0	10.8	1936.5	12.5	-1.6
Spot 65	1811212	1822307	240113.1	2.8	8.6	0.6	5.4	1.0	0.3	0.8	0.81490	1880.0	13.6	1881.1	8.7	1882.3	10.6	0.1
Spot 66	1824960	1836139	58618.0	4.5	7.5	0.6	7.4	1.1	0.4	0.9	0.85037	2197.0	17.6	2159.3	9.9	2123.6	10.2	-3.5
Spot 67	2425866	2440726	13251.9	1.5	7.8	0.6	6.0	1.0	0.3	0.7	0.75798	1928.2	12.2	1975.8	8.4	2025.9	11.1	4.8
Spot 68	1260240	1267960	50984.8	1.2	7.5	0.8	7.0	1.3	0.4	1.0	0.79527	2091.8	18.7	2105.7	11.7	2119.2	14.0	1.3
Spot 69	1283318	1291180	1369321.2	2.4	7.7	0.6	6.9	1.2	0.4	1.1	0.86857	2125.9	19.5	2102.0	11.0	2078.6	10.8	-2.3
Spot 70	1449578	1458458	52259.8	2.2	8.5	0.6	5.5	1.1	0.3	1.0	0.82889	1905.5	15.7	1896.2	9.9	1886.1	11.6	-1.0

Spot 72	1952335	1964294	554826.9	1.5	4.2	0.5	20.5	1.1	0.6	0.9	0.86662	3127.3	23.2	3114.6	10.5	3106.4	8.6	-0.7
Spot 73	2203617	2217116	107599.4	2.4	8.4	0.6	5.6	1.2	0.3	1.1	0.87362	1915.1	17.8	1913.7	10.6	1912.1	10.7	-0.2
Spot 74	1636991	1647019	36094.7	1.5	8.4	0.5	5.8	1.0	0.4	0.8	0.83752	1964.9	13.9	1945.7	8.5	1925.3	9.6	-2.1
Spot 75	1597728	1607516	53566.6	2.9	7.1	0.5	7.9	1.1	0.4	1.0	0.88723	2243.7	18.9	2224.4	10.2	2206.6	9.0	-1.7
Spot 76	2654717	2670979	19254.4	3.8	8.0	0.6	5.8	1.0	0.3	0.8	0.78740	1911.7	13.2	1953.8	8.8	1998.7	11.1	4.4
Spot 77	1577021	1586682	103553.5	1.2	7.4	0.7	7.4	1.2	0.4	1.0	0.82586	2170.5	17.7	2158.1	10.4	2146.3	11.5	-1.1
Spot 78	3754461	3777460	126722.9	3.1	7.4	0.4	7.1	0.9	0.4	0.8	0.90092	2122.0	14.2	2129.8	7.8	2137.3	6.6	0.7
Spot 80	2174588	2187909	33709.2	2.4	5.5	0.5	12.5	1.1	0.5	1.0	0.91086	2622.2	21.9	2639.5	10.5	2652.8	7.6	1.2
Spot 81	2569161	2584899	107177.0	2.5	8.5	0.5	5.5	1.0	0.3	0.8	0.83627	1901.8	13.4	1898.2	8.3	1894.2	9.6	-0.4
Spot 82	2139216	2152320	23287.2	1.3	8.2	1.0	5.7	1.3	0.3	0.9	0.69935	1888.8	15.4	1925.6	11.6	1965.4	17.2	3.9
Spot 83	1226076	1233587	96689.6	2.1	8.5	0.7	5.6	1.1	0.4	0.8	0.72306	1949.0	12.9	1922.8	9.1	1894.5	13.2	-2.9
Spot 84	2472686	2487833	104338.2	2.0	7.4	0.6	7.3	1.0	0.4	0.9	0.83701	2171.1	15.7	2151.9	9.1	2133.6	9.7	-1.8
Spot 85	1465222	1474198	154720.7	0.9	5.2	0.6	13.7	1.0	0.5	0.8	0.76957	2736.0	16.9	2730.2	9.3	2725.9	10.4	-0.4
Spot 86	1269430	1277206	137528.0	2.0	7.5	0.7	7.2	1.1	0.4	0.9	0.79642	2152.8	15.8	2133.9	9.6	2115.8	11.5	-1.7
Spot 87	1412122	1420772	201202.6	1.9	8.6	0.6	5.4	1.2	0.3	1.0	0.85196	1891.5	16.2	1887.5	9.9	1883.0	10.9	-0.5
Spot 88	2052042	2064612	92438.5	2.3	8.5	0.5	5.5	1.1	0.3	0.9	0.86788	1896.3	15.4	1893.4	9.3	1890.2	9.7	-0.3
Spot 89	1483870	1492959	668086.7	2.4	5.6	0.6	12.3	1.1	0.5	0.9	0.83206	2628.0	20.5	2628.7	10.7	2629.3	10.5	0.0
Spot 90	1409846	1418482	216451.9	0.9	7.6	0.7	7.1	1.2	0.4	1.0	0.81351	2152.2	17.9	2127.8	10.7	2104.2	12.2	-2.3
Spot 91	1759174	1769951	120036.7	2.5	7.2	0.4	7.8	0.7	0.4	0.5	0.79746	2217.5	10.1	2207.1	6.1	2197.5	7.1	-0.9
Spot 92	1432531	1441306	118644.2	2.9	7.5	0.6	7.2	1.0	0.4	0.8	0.76560	2141.9	14.0	2131.0	8.9	2120.5	11.3	-1.0
Spot 93	2555393	2571047	229277.5	1.9	8.0	0.7	6.0	1.2	0.4	1.0	0.84687	1962.9	17.7	1982.1	10.8	2002.1	11.7	2.0
Spot 94	1617496	1627404	51994.4	2.3	8.4	0.6	5.7	1.0	0.3	0.9	0.82197	1930.0	14.3	1924.1	9.0	1917.8	10.7	-0.6
Spot 95	1210924	1218342	94143.8	2.8	8.5	0.7	5.5	1.2	0.3	1.0	0.83475	1914.6	17.2	1905.7	10.7	1895.9	12.3	-1.0
Spot 96	2130543	2143594	90538.7	3.6	7.2	0.5	7.8	1.0	0.4	0.8	0.83779	2232.8	15.6	2213.8	8.9	2196.2	9.4	-1.7
Spot 97	2394759	2409429	117874.8	3.0	8.6	0.5	5.7	1.2	0.4	1.1	0.89987	1961.9	18.7	1927.3	10.6	1890.1	9.6	-3.8
Spot 98	1882674	1894207	164648.1	2.5	7.4	0.6	7.4	1.2	0.4	1.0	0.83324	2169.4	18.0	2155.4	10.5	2142.0	11.3	-1.3
Spot 99	1052986	1059436	48182.5	1.9	8.3	0.6	5.8	0.9	0.4	0.7	0.77329	1944.9	12.3	1942.5	8.2	1940.0	10.7	-0.3
Spot 100	1953242	1965207	35729.2	2.0	8.3	0.6	5.6	1.0	0.3	0.9	0.83290	1895.9	14.0	1912.2	8.8	1929.8	10.2	1.8
Spot 101	1494165	1503318	23713.2	2.2	8.0	0.8	6.0	1.1	0.4	0.8	0.72417	1963.9	13.8	1980.8	9.8	1998.5	13.8	1.7
Spot 102	2118654	2131633	156717.0	2.5	7.7	0.6	6.8	1.2	0.4	1.1	0.86219	2095.1	19.1	2089.9	11.0	2084.7	11.0	-0.5
Spot 103	1830055	1841265	825751.1	2.0	7.6	0.7	7.1	1.1	0.4	0.8	0.73762	2138.5	14.6	2121.4	9.7	2104.9	12.9	-1.6
Spot 104	2376000	2390555	116959.8	2.5	5.4	0.5	12.9	1.1	0.5	1.0	0.89233	2676.8	22.4	2672.9	10.8	2670.0	8.6	-0.3
Spot 105	1569891	1579508	18530.4	3.3	5.4	0.7	12.8	1.2	0.5	1.0	0.80764	2669.0	22.0	2667.8	11.7	2666.8	12.2	-0.1
Spot 107	267442	269080	17247.6	3.0	7.4	1.0	7.4	1.5	0.4	1.1	0.75581	2185.2	21.2	2162.5	13.6	2141.0	17.3	-2.1
Spot 108	1551572	1561077	245022.8	2.5	5.4	0.6	13.4	1.1	0.5	0.9	0.82793	2743.3	19.9	2707.0	10.2	2679.9	10.0	-2.4
Spot 109	1442748	1451586	30837.0	1.5	7.2	0.6	7.7	1.0	0.4	0.8	0.79591	2194.3	14.6	2197.2	8.8	2200.0	10.4	0.3
Spot 110	1997098	2009332	74510.3	2.4	8.5	0.6	5.5	1.0	0.3	0.8	0.82495	1921.3	13.5	1907.8	8.5	1893.1	10.0	-1.5
Spot 111	950864	956689	53873.0	1.2	8.3	0.6	5.8	1.1	0.4	0.9	0.82460	1956.4	15.9	1949.2	9.9	1941.6	11.5	-0.8
Spot 112	1650692	1660804	273112.6	1.5	8.2	0.7	6.0	1.2	0.4	1.0	0.81048	1985.2	16.8	1971.1	10.5	1956.3	12.7	-1.5
Spot 113	2062337	2074970	39060.5	2.3	8.1	0.8	6.1	1.3	0.4	1.1	0.81048	1991.7	18.3	1985.0	11.5	1978.0	13.7	-0.7
Spot 114	1584090	1593794	142675.8	2.1	5.5	0.5	12.9	0.9	0.5	0.7	0.82842	2696.3	16.2	2675.4	8.4	2659.7	8.2	-1.4
Spot 115	635140	639031	96388.3	1.3	4.4	0.5	18.5	1.2	0.6	1.1	0.89712	3029.1	26.2	3018.1	11.6	3010.7	8.6	-0.6
Spot 116	1601089	1610897	95327.8	1.8	5.5	0.6	12.7	1.0	0.5	0.8	0.81394	2664.9	17.1	2659.9	9.0	2656.0	9.3	-0.3

Spot 117	3060190	3078936	65174.4	1.6	5.4	0.4	12.7	1.0	0.5	0.9	0.91365	2627.4	19.4	2654.8	9.2	2675.8	6.6	1.8
Spot 118	1456824	1465748	317389.8	2.4	5.4	0.6	12.8	1.2	0.5	1.0	0.87087	2659.4	22.5	2664.5	11.2	2668.4	9.6	0.3
Spot 119	2313318	2327488	75365.5	2.2	5.5	0.6	12.5	1.0	0.5	0.8	0.81745	2631.8	17.9	2644.1	9.5	2653.5	9.7	0.8
Spot 120	1823295	1834464	632519.9	2.1	8.4	0.6	5.7	1.1	0.4	0.9	0.83044	1951.8	14.8	1936.0	9.2	1919.2	10.6	-1.7
Spot 121	1055383	1061848	59527.5	1.1	8.1	0.7	6.4	1.3	0.4	1.1	0.85752	2071.3	20.0	2032.8	11.6	1993.9	12.1	-3.9
Spot 122	1479749	1488814	104639.6	6.0	3.7	0.6	24.9	1.1	0.7	1.0	0.85355	3361.2	25.3	3303.9	11.0	3269.3	9.3	-2.8
Spot 123	1817163	1828294	103716.3	2.0	8.5	0.6	5.4	1.2	0.3	1.1	0.87212	1884.1	17.6	1888.6	10.6	1893.7	10.9	0.5
Spot 124	1491609	1500746	7206.1	1.5	7.4	1.3	6.5	1.5	0.4	0.7	0.48256	1958.5	11.9	2043.7	12.9	2130.9	22.4	8.1
Spot 125	1904670	1916338	68957.0	2.5	7.3	0.7	7.5	1.3	0.4	1.2	0.85935	2174.8	21.3	2176.6	12.0	2178.3	11.9	0.2
Spot 126	1125187	1132080	50764.1	1.9	7.2	0.7	7.7	1.0	0.4	0.7	0.70734	2195.8	13.3	2192.2	9.1	2188.7	12.4	-0.3
Spot 128	2886298	2903979	25540.5	2.3	7.3	0.6	6.9	1.0	0.4	0.8	0.81036	2047.5	14.4	2105.0	9.0	2161.7	10.3	5.3
Spot 129	1494135	1503287	105979.4	2.2	7.4	0.6	7.3	1.1	0.4	0.9	0.83216	2163.2	16.2	2146.8	9.5	2131.2	10.3	-1.5
Spot 130	1626807	1636772	53027.7	3.3	7.6	0.6	7.1	0.9	0.4	0.7	0.74660	2135.1	12.1	2119.3	7.9	2104.1	10.4	-1.5
Spot 131	1193727	1201039	96514.4	2.6	5.4	0.7	13.3	1.1	0.5	0.9	0.79596	2723.2	19.7	2697.9	10.5	2679.1	11.1	-1.6
Spot 132	482167	485121	61704.2	3.0	6.9	0.7	8.3	1.5	0.4	1.3	0.87831	2281.0	25.5	2265.0	13.7	2250.5	12.5	-1.4
Spot 133	1309084	1317103	85905.4	0.5	5.4	0.6	13.0	1.2	0.5	1.0	0.86040	2663.0	21.7	2677.9	10.9	2689.2	9.7	1.0
Spot 134	583610	587185	12042.8	3.3	6.7	0.8	8.3	1.1	0.4	0.8	0.68769	2233.6	14.5	2266.8	10.1	2296.9	13.9	2.8
Spot 135	901740	907263	409674.6	2.2	5.4	0.6	13.7	1.1	0.5	0.9	0.81731	2804.4	20.2	2732.5	10.3	2679.8	10.4	-4.6
Spot 136	1867962	1879405	105419.1	1.1	8.5	0.4	5.3	0.9	0.3	0.8	0.88124	1857.8	12.4	1872.6	7.4	1889.1	7.4	1.7
Spot 137	939383	945138	63575.7	4.3	7.4	0.6	7.4	1.4	0.4	1.2	0.89849	2177.6	22.8	2156.4	12.3	2136.2	10.5	-1.9
Spot 139	729322	733789	290285.6	2.2	7.9	0.6	6.5	1.2	0.4	1.0	0.84179	2072.5	17.7	2051.8	10.5	2031.1	11.3	-2.0
Spot 140	634072	637956	218637.2	2.5	6.9	0.5	8.5	1.1	0.4	0.9	0.86338	2302.8	17.9	2288.7	9.7	2276.1	9.3	-1.2
Spot 142	2035648	2048118	386328.5	2.6	5.4	0.5	13.1	1.0	0.5	0.9	0.86365	2712.8	20.0	2688.0	9.9	2669.4	8.7	-1.6
Spot 143	1792978	1803962	100195.8	3.0	5.5	0.5	12.9	1.0	0.5	0.9	0.87228	2697.1	20.1	2671.0	9.9	2651.4	8.5	-1.7
Spot 144	2366445	2380941	465660.7	2.5	4.9	0.5	15.4	1.2	0.6	1.0	0.88347	2838.3	23.6	2838.9	11.1	2839.3	8.9	0.0
Spot 145	1888128	1899694	91858.9	1.6	8.7	0.8	5.4	1.3	0.3	1.0	0.79044	1914.5	17.0	1888.0	11.1	1859.0	14.3	-3.0
Spot 146	1666290	1676497	47065.3	3.3	5.4	0.6	13.3	1.1	0.5	0.9	0.81576	2717.1	19.8	2698.8	10.3	2685.1	10.4	-1.2
Spot 147	1661239	1671415	23692.6	1.7	8.1	1.0	5.7	1.5	0.3	1.1	0.75484	1887.0	18.0	1926.7	12.6	1969.6	17.1	4.2
Spot 148	1970721	1982793	148299.1	2.2	8.4	0.7	5.6	1.1	0.3	0.9	0.78613	1932.5	14.9	1922.8	9.8	1912.2	12.6	-1.1
Spot 149	2701083	2717630	85482.0	2.5	8.4	0.7	5.6	1.2	0.3	1.0	0.82686	1910.6	16.7	1914.0	10.5	1917.8	12.4	0.4
Spot 150	1169509	1176673	212578.0	2.0	4.6	0.7	17.3	1.3	0.6	1.1	0.84805	2986.8	25.7	2951.6	12.2	2927.8	10.9	-2.0
Spot 151	2231855	2245526	12377.0	2.0	7.8	0.7	6.2	1.0	0.4	0.8	0.75776	1991.4	13.4	2010.8	9.0	2030.7	11.9	1.9
Spot 152	1340040	1348249	112663.9	1.5	7.4	0.4	7.5	0.7	0.4	0.6	0.82522	2191.4	10.9	2169.0	6.4	2147.8	7.0	-2.0
Spot 153	1304566	1312558	56550.8	2.4	5.4	0.5	12.7	0.9	0.5	0.7	0.81925	2639.4	15.2	2654.5	8.1	2666.0	8.1	1.0
Spot 154	1469102	1478101	167698.9	2.6	5.4	0.6	13.0	1.1	0.5	1.0	0.85703	2677.9	20.9	2676.6	10.5	2675.5	9.5	-0.1
Spot 155	2949647	2967716	10827.8	1.5	7.6	1.3	5.8	1.8	0.3	1.2	0.67726	1826.3	19.0	1950.3	15.2	2084.7	22.8	12.4
Spot 156	247431	248947	21666.9	3.2	7.0	0.9	7.5	1.4	0.4	1.0	0.74558	2112.5	18.3	2168.2	12.2	2221.3	15.7	4.9
Spot 157	1059912	1066405	27775.2	1.9	7.4	0.6	7.3	1.0	0.4	0.8	0.81289	2180.4	15.1	2153.9	9.0	2128.7	10.2	-2.4
Spot 158	1907634	1919320	77233.9	2.1	7.6	0.6	6.9	1.0	0.4	0.9	0.84203	2115.7	15.7	2104.2	9.2	2092.9	9.8	-1.1
Spot 159	419872	422444	426049.0	1.7	7.5	0.8	7.0	1.3	0.4	1.1	0.79313	2112.6	19.3	2112.6	12.0	2112.6	14.4	0.0
Spot 160	4216633	4242463	380405.8	1.5	7.7	0.6	6.5	1.1	0.4	0.9	0.85521	2038.2	16.3	2048.1	9.6	2058.1	10.0	1.0
Spot 161	1718032	1728557	705445.8	1.8	8.6	0.6	5.6	1.2	0.4	1.0	0.85763	1942.6	16.7	1910.6	10.0	1876.1	10.8	-3.5
Spot 162	1156324	1163407	108704.7	2.5	5.5	0.7	12.8	1.1	0.5	0.9	0.82206	2675.9	20.7	2664.7	10.8	2656.2	10.9	-0.7

Spot 163	1161300	1168413	286959.7	2.5	5.1	0.5	14.5	1.0	0.5	0.9	0.88057	2815.3	19.8	2783.4	9.4	2760.4	7.7	-2.0
Spot 164	1421856	1430566	24425.5	1.4	8.1	0.7	6.0	1.0	0.4	0.7	0.74417	1987.4	12.8	1978.0	8.7	1968.2	11.9	-1.0
Spot 165	3005634	3024046	184712.4	1.8	5.1	0.3	14.0	0.7	0.5	0.6	0.89695	2729.6	13.9	2747.2	6.6	2760.2	5.1	1.1
Spot 167	2150153	2163324	589398.6	2.3	4.7	0.6	17.0	1.2	0.6	1.0	0.84968	2964.3	23.4	2935.4	11.1	2915.6	9.9	-1.7
Spot 168	3061844	3080600	64781.9	1.9	5.4	0.5	12.7	0.9	0.5	0.7	0.84327	2631.1	16.0	2654.6	8.3	2672.5	7.8	1.5
Spot 169	2603957	2619909	846126.2	2.1	5.4	0.5	12.9	1.1	0.5	1.0	0.90320	2664.1	22.2	2670.4	10.6	2675.2	8.0	0.4
Spot 170	2780582	2797616	117533.9	3.4	5.3	0.5	13.3	1.1	0.5	1.0	0.89430	2718.3	21.7	2703.3	10.3	2692.1	8.1	-1.0
Spot 172	1319882	1327967	110122.9	2.9	5.5	0.5	13.0	1.0	0.5	0.9	0.88737	2714.0	20.1	2681.4	9.6	2656.9	7.8	-2.1
Spot 173	885733	891159	297448.4	2.5	7.5	0.5	7.1	1.0	0.4	0.9	0.84956	2131.8	15.7	2119.3	9.0	2107.2	9.4	-1.2
Spot 174	2223551	2237172	1505628.3	2.8	5.4	0.5	13.2	1.1	0.5	1.0	0.90651	2697.5	21.3	2693.7	10.1	2690.8	7.4	-0.2
Spot 175	1466316	1475298	13816.8	2.2	7.1	1.2	7.5	1.5	0.4	0.9	0.60479	2146.0	16.2	2168.6	13.1	2190.0	20.3	2.0
Spot 176	1774485	1785355	208804.6	2.2	8.4	0.6	5.6	1.1	0.3	0.9	0.84808	1927.2	15.7	1920.6	9.6	1913.5	10.5	-0.7
Spot 177	1250974	1258637	1101471.5	2.9	5.4	0.7	13.2	1.2	0.5	1.0	0.84475	2719.8	22.8	2692.3	11.5	2671.7	10.8	-1.8
Spot 178	1444633	1453483	1258721.8	1.4	8.5	0.7	5.4	1.2	0.3	0.9	0.80250	1865.5	15.1	1879.6	9.9	1895.2	12.5	1.6
Spot 179	1277512	1285338	450329.1	1.7	5.4	0.5	13.4	0.9	0.5	0.7	0.77742	2746.5	14.8	2707.5	8.1	2678.5	8.9	-2.5
Spot 180	1655832	1665975	191666.7	3.5	7.2	0.6	7.8	1.2	0.4	1.1	0.85839	2226.1	20.2	2203.3	11.2	2182.2	11.1	-2.0
Spot 181	1183173	1190421	11383.4	1.5	7.6	1.3	6.2	1.4	0.3	0.6	0.41586	1924.4	9.7	2005.3	12.3	2089.7	22.5	7.9
Spot 182	1661399	1671576	90207.0	3.2	7.5	0.7	6.2	1.3	0.3	1.1	0.85090	1906.5	17.6	2007.9	11.0	2113.7	11.6	9.8
Spot 183	1170764	1177936	103954.4	2.2	5.4	0.6	13.2	1.1	0.5	0.9	0.82632	2718.5	20.7	2697.3	10.7	2681.4	10.5	-1.4
Spot 184	2352575	2366986	15743.2	1.3	6.6	0.7	8.1	1.3	0.4	1.0	0.81355	2146.1	18.8	2244.6	11.5	2335.7	12.6	8.1
Spot 185	1499290	1508474	5436801.1	2.9	5.5	0.6	13.1	1.1	0.5	0.9	0.84761	2720.0	19.8	2685.1	9.9	2659.0	9.2	-2.3
Spot 186	1206796	1214189	100763.8	3.3	7.2	0.5	7.7	1.0	0.4	0.9	0.86880	2216.1	16.8	2201.5	9.3	2187.9	8.9	-1.3
Spot 187	2320104	2334316	198008.5	4.0	7.8	0.5	6.8	1.1	0.4	0.9	0.88258	2114.3	16.9	2085.5	9.4	2057.2	8.8	-2.8
Spot 188	1945286	1957203	68455.5	1.7	8.0	0.6	6.1	1.0	0.4	0.8	0.78979	1972.2	13.5	1986.5	8.8	2001.4	10.9	1.5
Spot 189	1855687	1867055	72973.1	2.0	5.4	0.5	13.0	0.8	0.5	0.7	0.78112	2688.0	14.5	2678.0	8.0	2670.6	8.8	-0.7
Spot 190	1270969	1278754	24996.7	3.4	7.3	0.4	7.4	0.8	0.4	0.6	0.83754	2152.1	11.7	2162.3	6.8	2171.9	7.3	0.9
Spot 191	2009541	2021851	100007.8	2.9	7.3	0.7	7.5	1.1	0.4	0.9	0.82088	2167.7	17.3	2168.0	10.3	2168.2	11.4	0.0
Spot 192	920344	925982	86224.1	1.6	7.6	0.6	7.1	1.0	0.4	0.8	0.78002	2147.2	13.8	2125.7	8.6	2104.9	10.6	-2.0
Spot 193	1673833	1684087	228733.5	2.5	5.4	0.5	13.1	0.9	0.5	0.8	0.86977	2715.5	17.8	2687.1	8.7	2665.8	7.5	-1.9
Spot 194	2125596	2138617	120784.0	2.9	5.5	0.5	13.0	1.0	0.5	0.9	0.86699	2715.7	19.7	2682.9	9.7	2658.2	8.5	-2.2
Spot 196	1615441	1625337	19671.2	2.5	7.1	0.4	7.4	0.9	0.4	0.8	0.88280	2129.5	14.7	2163.8	8.2	2196.4	7.5	3.0
Spot 197	1901902	1913552	27792.5	3.2	6.9	0.6	7.9	0.9	0.4	0.7	0.75698	2177.6	13.2	2220.8	8.5	2260.9	10.7	3.7
Spot 198	1685799	1696126	10995.4	1.4	5.1	0.6	14.8	1.0	0.6	0.8	0.82097	2845.7	18.5	2802.7	9.3	2772.0	9.2	-2.7
Spot 199	1741824	1752494	17369.2	1.5	7.2	0.7	7.0	1.1	0.4	0.8	0.78387	2046.2	14.4	2116.8	9.3	2186.1	11.4	6.4
Spot 200	3420539	3441492	233652.5	2.7	7.5	0.6	7.0	1.0	0.4	0.8	0.78393	2113.2	14.3	2115.6	9.0	2118.0	11.0	0.2
Spot 201	2331745	2346028	9049.6	2.0	6.9	4.6	6.6	4.8	0.3	1.5	0.31470	1888.3	24.9	2064.4	42.7	2245.1	79.3	15.9
Spot 202	1749088	1759802	10473.7	1.5	7.6	0.7	6.2	1.0	0.4	0.8	0.78217	1940.3	13.7	2008.5	9.2	2079.3	11.5	6.7
Spot 203	696113	700377	24699.6	1.2	7.6	0.7	6.7	1.4	0.4	1.2	0.86669	2059.4	21.2	2068.7	12.3	2078.1	12.2	0.9
Spot 204	2387178	2401802	84599.2	1.8	7.1	0.5	7.9	0.8	0.4	0.6	0.77706	2225.3	11.9	2223.9	7.4	2222.5	8.9	-0.1
Spot 205	1381038	1389498	28712.2	1.7	8.0	0.8	6.0	1.2	0.4	0.9	0.74946	1957.2	15.5	1977.5	10.7	1998.8	14.4	2.1
Spot 206	774571	779316	100719.2	3.7	5.2	0.6	13.6	1.1	0.5	0.9	0.83527	2700.1	20.0	2721.0	10.2	2736.6	9.8	1.3
Spot 207	2778762	2795784	46403.1	6.5	7.5	0.5	6.8	1.1	0.4	0.9	0.88780	2075.9	16.7	2090.9	9.4	2105.7	8.5	1.4
Spot 209	1186854	1194124	110181.8	1.6	7.4	0.6	7.2	1.1	0.4	0.9	0.81025	2118.4	15.6	2133.5	9.5	2148.1	10.9	1.4

Spot 210	861821	867101	99789.6	2.5	8.6	0.6	5.5	1.0	0.3	0.7	0.74662	1906.3	12.0	1893.8	8.3	1880.1	11.7	-1.4
Spot 211	2395107	2409779	32454.1	1.5	8.3	0.8	5.5	1.3	0.3	1.1	0.79940	1865.2	17.2	1897.1	11.4	1932.2	14.3	3.5
Spot 212	2148871	2162034	101189.8	2.4	5.5	0.5	12.9	1.1	0.5	1.0	0.87939	2693.0	21.4	2672.3	10.4	2656.7	8.7	-1.4
Spot 213	2405896	2420634	416265.2	1.5	7.2	0.6	7.9	1.0	0.4	0.9	0.84818	2255.0	16.8	2216.0	9.4	2180.0	9.6	-3.4
Spot 214	1553825	1563344	86698.5	1.4	7.9	0.6	6.6	1.0	0.4	0.9	0.81713	2091.5	15.2	2054.9	9.2	2018.5	10.7	-3.6
Spot 215	769931	774648	97859.0	4.2	7.5	0.6	7.4	1.0	0.4	0.8	0.81236	2210.2	15.8	2164.0	9.3	2120.4	10.6	-4.2
Spot 216	1519209	1528516	104188.2	2.2	7.7	0.6	6.9	1.0	0.4	0.8	0.82180	2118.3	15.2	2095.0	9.1	2072.2	10.3	-2.2
Spot 217	1442915	1451754	1442695.4	2.0	7.9	0.6	6.5	1.1	0.4	0.9	0.83303	2069.4	16.4	2051.9	9.8	2034.3	10.9	-1.7
Spot 218	1477000	1486048	108126.7	1.6	8.5	0.7	5.5	1.2	0.3	1.0	0.81988	1905.6	16.4	1901.4	10.4	1896.7	12.5	-0.5
Spot 219	2211776	2225325	64852.4	2.0	5.4	0.6	12.8	1.1	0.5	0.9	0.84140	2658.2	19.7	2663.1	10.1	2666.8	9.6	0.3
Spot 220	1586321	1596039	27355.3	2.5	5.3	0.7	13.3	1.1	0.5	0.9	0.77066	2681.9	19.2	2698.1	10.7	2710.2	11.9	1.0
Spot 221	2331406	2345687	29508.1	2.4	7.9	0.7	6.1	1.3	0.4	1.0	0.81539	1964.1	17.6	1990.0	11.1	2017.0	13.1	2.6
Spot 222	1141682	1148676	3953047.6	2.0	5.3	0.5	13.8	1.1	0.5	1.0	0.89693	2760.1	22.2	2735.9	10.5	2718.1	8.1	-1.5
Spot 223	1451732	1460625	22988.9	1.7	6.9	0.6	8.0	1.0	0.4	0.8	0.80562	2194.9	15.1	2233.0	9.1	2268.0	10.3	3.2
Spot 224	2554419	2570067	126050.8	2.3	5.5	0.5	12.7	1.1	0.5	1.0	0.87844	2660.8	21.0	2657.5	10.3	2655.0	8.7	-0.2
Spot 225	2089451	2102250	300828.8	2.1	7.2	0.7	7.6	1.3	0.4	1.1	0.82705	2184.7	20.1	2185.5	11.8	2186.2	12.8	0.1
Spot 226	1538415	1547839	301128.3	2.0	5.3	0.5	13.6	1.0	0.5	0.9	0.88045	2740.9	20.0	2725.0	9.6	2713.2	7.9	-1.0
Spot 227	399966	402416	67724.8	1.2	5.4	0.5	12.5	1.0	0.5	0.9	0.84781	2591.4	18.6	2644.4	9.7	2685.3	9.0	3.5
Spot 228	1860666	1872064	23422.8	1.4	3.0	0.5	32.3	1.0	0.7	0.8	0.84034	3505.9	22.2	3559.3	9.6	3589.5	8.1	2.3
Spot 229	2224323	2237949	92245.3	1.6	7.2	0.6	7.5	1.3	0.4	1.1	0.88867	2169.0	21.1	2178.5	11.6	2187.3	10.3	0.8
Spot 230	935320	941049	98528.4	1.6	7.6	0.7	7.0	1.2	0.4	1.0	0.81212	2150.7	18.0	2117.4	10.8	2085.2	12.5	-3.1
Spot 231	2298257	2312336	277841.2	2.5	5.6	0.7	12.2	1.1	0.5	0.8	0.77253	2612.8	17.8	2619.4	10.1	2624.5	11.4	0.4
Spot 232	2173479	2186793	11629.1	2.0	7.6	0.9	6.2	1.2	0.3	0.8	0.64266	1927.6	13.3	2001.3	10.8	2078.3	16.7	7.3
Spot 233	2510029	2525404	7769539.0	3.3	8.5	0.7	5.5	1.1	0.3	0.8	0.77562	1909.2	13.5	1906.4	9.1	1903.3	11.9	-0.3
Spot 234	1393111	1401645	6770.2	2.1	6.6	0.6	7.9	1.0	0.4	0.7	0.76549	2106.8	13.4	2214.2	8.8	2315.1	10.7	9.0
Spot 235	813124	818105	28413.5	1.2	5.1	0.7	14.3	1.1	0.5	0.8	0.76654	2777.6	19.1	2771.8	10.5	2767.6	11.6	-0.4
Spot 236	410896	413413	19367.6	0.8	7.8	0.7	6.5	1.2	0.4	1.0	0.83072	2045.8	17.3	2039.2	10.5	2032.6	11.7	-0.6
Spot 237	367529	369780	31229.9	3.1	7.6	0.7	7.1	1.1	0.4	0.8	0.77095	2141.7	15.3	2121.0	9.7	2101.0	12.1	-1.9
Spot 238	2400420	2415125	175408.5	2.4	5.4	0.6	12.8	1.1	0.5	1.0	0.86273	2632.8	20.6	2661.4	10.4	2683.2	9.2	1.9
Spot 239	571169	574668	203112.1	2.8	7.5	0.7	7.1	1.2	0.4	1.0	0.82682	2111.0	18.3	2118.3	10.9	2125.3	12.1	0.7
Spot 240	2104036	2116925	49033.5	1.6	7.4	0.5	7.1	1.0	0.4	0.9	0.84771	2111.1	15.4	2128.8	9.0	2146.0	9.4	1.6
Spot 241	1543693	1553149	265102.5	2.8	5.4	0.7	13.1	1.2	0.5	1.0	0.83082	2685.4	21.8	2684.1	11.3	2683.2	11.0	-0.1
Spot 242	1393696	1402233	309666.1	2.5	5.4	0.6	12.8	1.0	0.5	0.8	0.79165	2665.2	16.4	2666.2	9.0	2666.9	9.6	0.1
Spot 243	1374380	1382799	12985.7	2.1	7.7	1.5	6.0	1.7	0.3	0.7	0.41136	1900.8	11.4	1982.9	14.6	2069.7	27.0	8.2
Spot 244	735687	740193	57552.0	2.1	7.5	0.7	7.1	1.3	0.4	1.0	0.82430	2139.6	19.0	2125.6	11.3	2112.0	12.6	-1.3
Spot 245	3713322	3736069	108584.0	4.6	7.4	0.7	6.9	1.3	0.4	1.2	0.87458	2051.2	20.7	2092.7	11.9	2133.8	11.4	3.9
Spot 246	1576512	1586170	3338674.2	2.3	8.6	0.7	5.5	1.0	0.3	0.8	0.75285	1904.2	12.6	1896.8	8.7	1888.8	12.1	-0.8
Spot 247	3075990	3094832	89469.8	1.9	7.2	0.6	7.5	1.3	0.4	1.1	0.88353	2159.5	21.0	2176.6	11.6	2192.7	10.6	1.5
Spot 248	3226675	3246441	8933.3	6.0	5.0	0.6	13.1	1.3	0.5	1.2	0.87900	2545.8	24.5	2684.7	12.5	2791.1	10.3	8.8
Spot 250	1596024	1605801	242147.0	1.3	5.4	0.5	12.9	1.0	0.5	0.9	0.88653	2669.7	19.2	2675.3	9.4	2679.5	7.6	0.4
Spot 251	1879250	1890762	397717.0	2.2	7.6	0.6	7.0	1.1	0.4	1.0	0.85684	2137.4	17.4	2114.4	9.9	2092.1	10.1	-2.2
Spot 252	2596563	2612469	28132.2	2.7	7.9	0.9	5.8	1.6	0.3	1.3	0.81289	1890.2	20.9	1951.8	13.6	2017.8	16.2	6.3
Spot 253	2014968	2027311	1276265.7	1.5	8.5	0.7	5.4	1.2	0.3	1.0	0.79623	1885.2	15.6	1891.9	10.3	1899.2	13.1	0.7

Spot 254	1309924	1317949	128568.3	1.8	8.5	0.6	5.6	1.1	0.4	0.9	0.81058	1938.3	14.4	1917.3	9.2	1894.7	11.2	-2.3
Spot 255	1420939	1429644	19871.6	2.5	4.9	0.5	14.4	0.8	0.5	0.7	0.83128	2687.8	14.8	2776.6	7.7	2841.8	7.3	5.4
Spot 256	3989069	4013505	125923.1	6.1	5.0	0.6	15.1	1.2	0.5	1.0	0.85886	2819.3	22.9	2821.7	11.1	2823.4	9.8	0.1
Spot 257	2888051	2905742	33458.6	1.9	7.5	0.7	6.8	1.2	0.4	1.0	0.83191	2056.6	17.5	2086.7	10.6	2116.4	11.6	2.8
Spot 258	2073456	2086158	36233.9	2.0	7.1	0.7	7.9	1.0	0.4	0.7	0.73006	2230.4	14.1	2222.6	9.2	2215.5	12.1	-0.7
Spot 259	1563128	1572704	17616.8	2.5	8.1	0.6	5.6	1.1	0.3	0.8	0.79335	1870.4	13.5	1920.9	9.1	1976.0	11.4	5.3
Spot 260	2273134	2287059	48784.0	1.7	8.3	0.8	5.5	1.6	0.3	1.3	0.83987	1863.0	21.2	1898.5	13.4	1937.5	15.2	3.8
Spot 261	1253253	1260930	1784031.5	2.3	7.7	0.6	6.9	1.0	0.4	0.8	0.78499	2115.2	14.0	2101.9	8.8	2088.9	10.8	-1.3
Spot 262	1963580	1975608	50165.8	2.6	8.3	0.5	5.7	0.8	0.3	0.7	0.82712	1931.5	11.7	1934.2	7.3	1937.1	8.5	0.3
Spot 263	2136468	2149555	8247.9	1.5	7.4	0.8	6.1	1.0	0.3	0.6	0.61838	1851.5	10.3	1987.6	9.1	2132.3	14.3	13.2
Spot 264	1492240	1501381	659171.6	2.6	5.5	0.7	12.6	1.1	0.5	0.8	0.75800	2666.0	17.6	2650.3	10.0	2638.4	11.5	-1.0
Spot 265	1555739	1565269	4852.8	4.9	6.1	1.3	8.7	1.6	0.4	0.9	0.55480	2143.3	16.4	2304.9	14.7	2451.4	22.8	12.6
Spot 266	1796472	1807476	152475.2	1.8	7.6	0.6	6.9	1.0	0.4	0.8	0.78597	2097.0	14.5	2103.1	9.2	2109.1	11.2	0.6
Spot 267	1620681	1630609	20503.7	2.5	6.8	0.9	7.9	1.3	0.4	0.9	0.73871	2149.3	17.3	2217.9	11.6	2281.9	14.9	5.8
Spot 268	1107647	1114432	234679.8	1.8	8.2	0.5	6.1	0.9	0.4	0.8	0.81510	1998.8	13.2	1986.0	8.2	1972.6	9.7	-1.3
Spot 269	2384891	2399500	84806.4	2.2	7.4	0.7	7.2	1.3	0.4	1.1	0.83990	2124.7	20.1	2133.7	11.8	2142.5	12.5	0.8
Spot 270	923598	929256	127183.3	1.4	7.2	0.5	7.8	0.9	0.4	0.7	0.82912	2205.9	13.7	2202.9	8.0	2200.0	8.6	-0.3
Spot 271	880585	885979	90287.1	1.7	8.1	0.6	5.9	1.0	0.4	0.8	0.82209	1937.0	13.7	1960.1	8.6	1984.6	10.1	2.4
Spot 272	2070472	2083156	15375.2	1.9	7.9	0.7	5.9	1.0	0.3	0.6	0.66260	1905.0	10.6	1964.8	8.4	2028.4	12.8	6.1
Spot 273	2584939	2600773	247669.7	5.0	7.6	0.6	6.8	1.0	0.4	0.8	0.77017	2067.7	13.7	2080.2	8.9	2092.7	11.3	1.2
Spot 274	789667	794504	28294.5	2.5	8.1	0.9	6.0	1.2	0.4	0.8	0.67343	1947.1	13.4	1968.7	10.3	1991.5	15.6	2.2
Spot 275	1010515	1016705	115321.8	1.2	7.3	0.8	7.7	1.3	0.4	1.0	0.79030	2219.5	18.8	2195.2	11.4	2172.5	13.5	-2.2
Spot 276	1992915	2005123	21084.8	1.1	8.0	1.3	5.9	1.4	0.3	0.6	0.41767	1922.5	9.6	1959.3	12.0	1998.3	22.3	3.8
Spot 277	3425291	3446274	71397.7	2.3	8.4	0.5	5.3	1.4	0.3	1.3	0.92819	1820.6	19.9	1867.1	11.5	1919.3	9.0	5.1
Spot 278	678141	682295	95054.4	1.1	5.4	0.7	12.6	1.3	0.5	1.0	0.81494	2609.7	22.1	2650.2	11.9	2681.3	12.1	2.7
Spot 279	1444535	1453384	1125120.0	2.4	5.6	0.6	12.7	1.2	0.5	1.0	0.85233	2678.2	22.3	2654.6	11.2	2636.7	10.4	-1.6
Spot 280	1228037	1235560	13931.3	1.6	6.9	0.5	7.7	1.1	0.4	1.0	0.88715	2113.9	18.1	2195.2	10.2	2272.0	9.0	7.0
Spot 281	1307003	1315009	106039.4	2.0	7.6	0.6	6.8	1.2	0.4	1.0	0.86640	2085.2	18.4	2091.1	10.6	2096.9	10.5	0.6
Spot 282	1063384	1069898	57447.9	1.6	7.3	0.8	7.2	1.3	0.4	1.1	0.82779	2103.0	20.0	2135.1	12.0	2166.1	13.1	2.9
Spot 283	2527866	2543351	28534.4	2.2	6.9	0.9	7.5	1.1	0.4	0.7	0.64123	2077.8	12.7	2172.3	10.0	2262.8	14.8	8.2
Spot 284	2595863	2611765	6961213.1	2.6	8.5	0.6	5.5	1.0	0.3	0.8	0.81084	1888.3	13.7	1894.8	8.8	1902.0	10.8	0.7
Spot 285	1270288	1278069	71056.5	2.2	8.5	0.5	5.6	1.0	0.4	0.8	0.85152	1952.1	13.8	1923.2	8.3	1892.1	9.1	-3.2
Spot 287	4291311	4317598	27695.8	2.1	6.9	0.5	7.6	1.4	0.4	1.3	0.92605	2094.2	22.4	2182.4	12.1	2266.4	8.8	7.6
Spot 288	1442939	1451778	93206.6	1.5	5.8	0.6	11.8	1.0	0.5	0.9	0.83133	2611.8	18.7	2591.7	9.8	2576.1	9.7	-1.4
Spot 289	3094164	3113118	109948.3	1.5	7.4	0.5	7.2	1.1	0.4	1.0	0.87966	2135.6	18.3	2137.5	10.2	2139.3	9.5	0.2
Spot 290	604781	608486	43867.6	1.3	5.1	0.6	15.0	1.2	0.6	1.0	0.85900	2889.9	23.9	2817.9	11.4	2766.8	10.0	-4.4
Spot 291	2363020	2377495	127009.5	2.6	3.8	0.4	23.0	0.9	0.6	0.8	0.90693	3186.3	20.1	3227.3	8.6	3253.0	5.8	2.1
Spot 292	2266612	2280497	269643.8	2.3	8.6	0.6	5.5	1.1	0.3	1.0	0.84636	1905.8	16.0	1895.9	9.8	1885.0	11.0	-1.1
Spot 293	3492218	3513611	258090.6	4.8	7.7	0.5	6.8	1.1	0.4	1.0	0.89429	2086.3	17.7	2082.4	9.8	2078.6	8.7	-0.4
Spot 294	1384976	1393460	31763.3	2.2	7.3	0.6	7.7	0.8	0.4	0.6	0.74596	2231.8	11.9	2199.3	7.6	2169.2	9.8	-2.9
Spot 295	1711880	1722366	421266.8	1.0	5.3	0.6	13.6	1.0	0.5	0.8	0.81533	2721.9	17.5	2722.0	9.2	2722.1	9.2	0.0
Spot 296	1563637	1573215	104842.0	2.0	8.6	0.4	5.4	1.1	0.3	1.0	0.91239	1887.3	16.1	1886.0	9.3	1884.6	8.0	-0.1
Spot 297	1569169	1578781	108422.2	3.3	6.3	0.6	9.8	1.1	0.5	1.0	0.83302	2428.2	19.4	2420.7	10.6	2414.4	10.8	-0.6

Spot 298	890153	895606	82257.5	1.8	5.5	0.6	13.1	1.0	0.5	0.8	0.82909	2730.0	18.3	2686.9	9.4	2654.6	9.2	-2.8
Spot 299	472979	475876	6522.8	2.8	6.7	1.2	8.1	1.4	0.4	0.8	0.58106	2175.5	15.2	2240.5	12.8	2300.5	19.8	5.4
Spot 300	1384842	1393325	109250.8	2.0	8.6	0.6	5.5	1.1	0.3	0.9	0.83587	1923.3	15.8	1901.7	9.7	1878.1	11.2	-2.4
Spot 301	1716376	1726890	80888.4	2.0	7.4	0.7	7.2	1.0	0.4	0.7	0.73211	2143.4	13.2	2140.6	8.8	2137.9	11.8	-0.3
Spot 302	2105047	2117942	16334.6	1.6	7.9	0.7	5.4	1.1	0.3	0.8	0.76135	1775.8	12.5	1890.7	9.1	2019.4	12.2	12.1
Spot 303	2358029	2372474	286553.3	2.0	8.6	0.5	5.4	0.9	0.3	0.8	0.84132	1874.8	12.7	1883.0	7.9	1892.0	9.0	0.9
Spot 304	611159	614903	55128.1	1.5	5.6	0.8	12.3	1.3	0.5	1.0	0.77966	2645.1	22.4	2629.2	12.4	2617.0	13.8	-1.1
Spot 305	1671050	1681286	109400.7	1.7	7.3	0.5	7.5	1.1	0.4	0.9	0.88217	2186.8	17.5	2173.2	9.6	2160.3	8.8	-1.2
Spot 306	675700	679840	63880.4	1.8	7.5	0.6	7.2	1.1	0.4	0.9	0.84520	2160.1	16.4	2140.7	9.4	2122.2	9.9	-1.8
Spot 307	1753394	1764135	18133.6	2.0	7.9	1.1	5.9	1.4	0.3	0.8	0.58345	1924.0	13.6	1966.4	12.2	2011.3	20.2	4.3
Spot 308	2711483	2728093	357066.2	2.2	8.5	0.5	5.4	1.0	0.3	0.8	0.84700	1868.9	13.4	1887.8	8.4	1908.6	9.3	2.1
Spot 309	1638016	1648050	11881.5	1.8	6.3	1.9	8.7	2.0	0.4	0.8	0.40579	2203.1	15.4	2309.2	18.5	2404.3	31.6	8.4
Spot 310	1330872	1339025	70023.6	1.6	5.1	0.5	14.6	1.0	0.5	0.9	0.88382	2806.9	19.4	2790.0	9.2	2777.8	7.4	-1.0
Spot 311	2391360	2406009	160237.3	3.5	7.7	0.5	6.6	1.1	0.4	0.9	0.85871	2057.3	16.2	2063.4	9.4	2069.4	9.6	0.6
Spot 312	2231282	2244951	24295.5	1.7	7.2	0.8	7.2	1.2	0.4	0.8	0.70156	2091.1	14.7	2139.5	10.5	2186.2	14.6	4.3
Spot 313	2006983	2019277	9908.8	2.4	6.8	1.0	7.8	1.4	0.4	1.0	0.69861	2127.6	17.5	2202.7	12.4	2273.3	17.1	6.4
Spot 314	2161562	2174803	2345.0	2.9	5.2	2.3	10.8	2.4	0.4	0.8	0.32335	2268.3	15.1	2508.8	22.7	2709.7	38.0	16.3
Spot 315	528342	531578	98809.0	3.1	7.5	0.7	7.4	1.1	0.4	0.9	0.81019	2199.7	17.1	2157.3	10.1	2117.1	11.7	-3.9

Run 2 (discordant)

Spot 106	1132767	1139706	90982.1	4.2	7.3	0.5	8.0	1.0	0.4	0.8	0.86752	2292.2	15.9	2234.1	8.6	2181.2	8.2	-5.1
Spot 127	819152	824170	682021.0	1.5	4.7	0.6	18.4	1.1	0.6	0.9	0.85617	3119.7	23.4	3011.0	10.6	2939.2	9.2	-6.1
Spot 138	783937	788739	2492.6	3.4	6.0	3.3	8.3	3.5	0.4	1.1	0.32812	1981.0	19.4	2260.7	31.3	2524.4	54.9	21.5
Spot 141	602680	606372	36942.0	1.9	7.1	0.5	8.8	1.1	0.5	1.0	0.89565	2408.4	20.3	2322.6	10.3	2247.9	8.6	-7.1
Spot 166	1534272	1543670	3006662.6	2.8	8.7	0.7	5.7	1.2	0.4	1.0	0.81683	1974.1	17.2	1926.8	10.7	1876.4	12.8	-5.2
Spot 171	2518468	2533895	6901.3	2.2	7.4	0.9	5.2	1.3	0.3	0.8	0.65544	1578.4	11.5	1847.4	10.7	2165.4	16.5	27.1
Spot 195	1598746	1608539	615315.9	3.4	8.6	0.6	4.1	1.2	0.3	1.1	0.88454	1464.2	14.2	1647.5	10.0	1890.0	10.3	22.5
Spot 208	354816	356989	61285.8	2.4	7.6	0.7	7.5	1.2	0.4	0.9	0.77374	2248.4	17.3	2178.9	10.6	2114.1	13.1	-6.4
Spot 249	856349	861595	1066254.6	3.3	7.6	0.7	7.5	1.1	0.4	0.9	0.76769	2238.6	16.7	2171.1	10.3	2107.8	12.9	-6.2
Spot 25	461389	464216	191517.8	13.6	7.6	0.8	7.7	1.4	0.4	1.1	0.83016	2263.3	21.9	2191.1	12.4	2124.3	13.5	-6.5
Spot 286	2485499	2500725	12651.5	1.2	7.7	1.5	4.8	1.9	0.3	1.2	0.60868	1531.1	16.1	1786.4	16.3	2099.1	27.0	27.1
Spot 33	1297190	1305136	2667.2	4.0	5.5	1.0	9.4	1.4	0.4	0.9	0.67850	2049.6	16.4	2373.6	12.6	2664.8	16.7	23.1
Spot 4	1107347	1114130	47853.4	1.2	7.7	0.8	5.2	1.3	0.3	1.1	0.81865	1645.4	16.0	1851.3	11.5	2091.3	13.6	21.3
Spot 41	2893416	2911140	3174.3	1.9	6.3	2.4	7.3	2.6	0.3	1.0	0.39751	1858.9	16.8	2145.5	23.3	2432.5	40.6	23.6
Spot 49	433251	435905	100400.2	1.8	8.3	0.7	6.3	1.1	0.4	0.9	0.77207	2075.5	15.3	2017.2	9.8	1958.0	12.6	-6.0
Spot 71	2634419	2650557	45697.6	2.5	8.4	0.6	4.2	2.2	0.3	2.1	0.95603	1473.9	27.3	1676.5	17.8	1940.3	11.4	24.0
Spot 79	3081378	3100254	8487.0	1.2	7.6	0.8	4.4	2.9	0.2	2.8	0.95723	1393.1	34.5	1711.5	23.8	2126.6	14.6	34.5

Run 3

Spot 1	1262007	1177146	681429.6	1.6	7.6	0.6	7.0	1.0	0.4	0.9	0.83232	2121.7	15.8	2111.4	9.3	2101.4	10.2	-1.0
Spot 2	2148483	2004013	9604.0	1.4	7.6	1.2	6.1	1.7	0.3	1.2	0.72331	1900.5	19.9	1989.2	14.6	2082.6	20.3	8.7
Spot 3	1679052	1566148	249722.6	1.9	5.4	0.6	12.9	1.0	0.5	0.7	0.76600	2665.1	16.0	2671.2	9.0	2675.8	10.2	0.4
Spot 4	3013373	2810745	117228.4	2.6	5.2	0.5	13.7	0.9	0.5	0.8	0.85528	2692.6	17.1	2728.8	8.6	2755.6	7.7	2.3
Spot 5	815960	761092	53310.0	1.4	8.5	0.8	5.7	1.4	0.4	1.1	0.81711	1941.5	18.7	1923.9	11.8	1905.0	14.1	-1.9
Spot 6	1618400	1509574	64574.3	1.7	8.3	0.5	5.7	0.8	0.3	0.6	0.78259	1925.9	10.7	1933.1	7.1	1940.8	9.2	0.8

Spot 7	1107955	1033453	146135.3	1.4	6.4	0.6	9.6	1.1	0.5	0.9	0.85770	2405.7	18.9	2401.0	10.1	2396.9	9.6	-0.4
Spot 8	2317780	2161926	53442.4	0.7	7.9	0.6	6.1	1.2	0.4	1.0	0.85172	1950.5	17.3	1988.1	10.5	2027.4	11.2	3.8
Spot 9	2951145	2752702	2006030.7	0.9	7.7	0.5	6.7	1.1	0.4	1.0	0.87964	2078.7	17.2	2077.6	9.7	2076.4	9.2	-0.1
Spot 10	511514	477118	141655.0	1.3	5.1	0.6	14.3	1.1	0.5	0.9	0.83727	2766.4	21.2	2768.8	10.7	2770.5	10.1	0.1
Spot 11	2563433	2391061	119428.0	3.3	7.2	0.5	7.6	1.0	0.4	0.9	0.87161	2178.9	16.8	2183.5	9.4	2187.7	8.9	0.4
Spot 12	1846416	1722258	133413.6	2.0	5.6	0.6	12.3	1.0	0.5	0.8	0.82728	2639.5	17.6	2627.7	9.2	2618.7	9.2	-0.8
Spot 13	1276185	1190371	491389.7	1.6	7.6	0.7	7.1	1.0	0.4	0.7	0.71448	2153.2	12.8	2128.8	8.7	2105.3	12.0	-2.3
Spot 15	3489738	3255078	45290.4	2.6	7.7	0.6	6.4	1.2	0.4	1.0	0.86324	1988.3	17.6	2034.4	10.4	2081.5	10.6	4.5
Spot 16	840989	784439	760197.3	2.3	7.4	0.6	7.4	1.4	0.4	1.3	0.89240	2163.6	23.5	2160.0	12.8	2156.5	11.3	-0.3
Spot 17	591987	552180	190272.9	1.4	7.3	0.6	7.7	1.2	0.4	1.0	0.84289	2224.7	18.9	2194.3	10.7	2166.0	11.2	-2.7
Spot 18	1115528	1040516	254519.2	0.9	8.6	0.5	5.4	0.9	0.3	0.7	0.81554	1890.7	11.7	1886.5	7.5	1881.9	9.1	-0.5
Spot 19	1768128	1649234	55069.1	1.6	5.5	0.6	12.7	1.1	0.5	0.9	0.81081	2658.8	19.5	2656.1	10.4	2654.0	10.7	-0.2
Spot 20	1103245	1029060	62447.2	1.3	7.5	0.7	7.0	1.2	0.4	1.0	0.84328	2107.0	18.9	2112.1	11.1	2116.9	11.7	0.5
Spot 21	1842702	1718794	197280.7	2.3	5.5	0.6	12.9	1.1	0.5	0.9	0.84705	2685.8	20.1	2675.1	10.2	2667.0	9.5	-0.7
Spot 22	829486	773709	1264194.3	2.0	7.7	0.8	6.6	1.2	0.4	0.9	0.74756	2041.2	15.8	2061.2	10.7	2081.2	14.1	1.9
Spot 23	1724055	1608124	1317207.5	1.9	5.4	0.6	12.9	1.0	0.5	0.9	0.82505	2675.9	18.9	2672.2	9.8	2669.3	9.8	-0.2
Spot 24	2307172	2152031	78265.2	0.8	5.5	0.5	12.1	1.1	0.5	0.9	0.87365	2564.8	19.5	2612.7	9.9	2650.0	8.5	3.2
Spot 25	912110	850777	342377.6	1.2	8.3	0.7	6.0	1.1	0.4	0.9	0.79523	1990.2	14.8	1971.6	9.5	1952.1	11.8	-2.0
Spot 26	2759423	2573872	154946.0	2.2	7.5	0.6	7.1	1.0	0.4	0.8	0.81825	2122.7	15.2	2120.9	9.1	2119.2	10.3	-0.2
Spot 27	2517706	2348408	126481.2	1.2	5.3	0.5	13.2	1.2	0.5	1.0	0.88859	2678.4	22.9	2692.2	11.1	2702.5	8.9	0.9
Spot 28	1723612	1607711	151192.9	1.7	8.6	0.7	5.5	1.1	0.3	0.9	0.75994	1896.0	14.2	1893.3	9.8	1890.3	13.3	-0.3
Spot 29	1334739	1244987	211116.4	2.4	7.6	0.6	6.9	1.0	0.4	0.8	0.80638	2098.0	14.3	2101.1	8.8	2104.1	10.3	0.3
Spot 30	2512066	2343147	154867.6	1.8	8.4	0.7	5.5	1.0	0.3	0.8	0.72782	1888.7	12.5	1906.8	9.0	1926.5	12.9	2.0
Spot 31	1742109	1624965	164695.4	1.2	4.0	0.6	21.9	1.0	0.6	0.8	0.79730	3168.6	20.4	3178.6	9.9	3184.8	9.8	0.5
Spot 32	4081633	3807173	138036.1	2.3	5.7	0.5	11.8	1.0	0.5	0.9	0.87568	2574.1	19.3	2591.9	9.7	2605.8	8.4	1.2
Spot 33	832526	776544	26764.4	1.3	5.4	0.8	12.9	1.2	0.5	0.9	0.73400	2673.9	19.2	2673.1	11.3	2672.6	13.5	0.0
Spot 34	398961	372134	#####	1.9	7.6	0.7	6.8	1.1	0.4	0.8	0.77513	2090.9	14.9	2092.2	9.6	2093.4	12.0	0.1
Spot 35	121133	112987	14434.3	0.6	5.5	0.9	12.4	1.2	0.5	0.8	0.68373	2620.0	17.4	2633.6	11.1	2644.1	14.4	0.9
Spot 36	366545	341898	361240.2	2.4	7.3	0.7	7.8	1.2	0.4	1.0	0.82729	2249.1	18.6	2210.3	10.7	2174.6	11.6	-3.4
Spot 37	1657868	1546388	88840.4	1.4	7.3	0.6	7.7	1.0	0.4	0.8	0.80695	2221.5	15.4	2198.4	9.1	2176.9	10.4	-2.0
Spot 38	1210654	1129246	339858.8	1.9	7.6	0.7	7.3	1.1	0.4	0.9	0.79352	2185.5	16.4	2148.9	9.9	2114.2	11.9	-3.4
Spot 39	1434603	1338136	152307.5	2.0	8.6	0.6	5.6	1.1	0.4	0.9	0.81941	1948.6	14.6	1919.5	9.1	1888.2	10.9	-3.2
Spot 40	466154	434809	124233.7	3.2	7.1	0.7	8.0	1.2	0.4	1.0	0.82611	2241.0	19.4	2227.9	11.2	2215.9	12.1	-1.1
Spot 41	2597822	2423137	115264.5	1.6	8.5	0.5	5.5	1.0	0.3	0.9	0.89905	1902.1	15.5	1898.2	9.0	1893.9	8.2	-0.4
Spot 42	636757	593940	83562.2	2.2	7.3	0.7	7.9	1.2	0.4	1.0	0.81022	2278.5	18.5	2225.2	10.7	2176.5	12.1	-4.7
Spot 43	1482374	1382695	609258.4	4.0	3.9	0.5	23.1	1.1	0.7	1.0	0.88518	3263.7	25.5	3231.1	11.0	3210.8	8.3	-1.6
Spot 44	2666196	2486913	142492.2	1.2	5.4	0.5	13.2	1.0	0.5	0.8	0.86308	2720.4	18.2	2695.1	9.0	2676.2	7.9	-1.7
Spot 45	1384342	1291255	16057.9	1.4	7.8	1.4	5.8	1.9	0.3	1.3	0.66296	1868.5	20.3	1951.3	16.4	2040.4	25.0	8.4
Spot 46	2001904	1867290	73455.8	2.5	6.1	0.5	10.4	1.0	0.5	0.9	0.88894	2465.5	18.7	2472.7	9.5	2478.7	7.9	0.5
Spot 47	3007977	2805712	23335.1	1.6	5.4	1.0	11.4	2.8	0.5	2.6	0.92926	2421.5	52.0	2556.9	25.9	2666.0	17.0	9.2
Spot 48	3195763	2980871	315168.1	1.2	8.6	0.5	5.4	1.0	0.3	0.9	0.89321	1868.5	15.1	1880.2	8.9	1893.1	8.4	1.3
Spot 49	1933438	1803428	32327.6	1.6	8.3	0.6	5.3	1.0	0.3	0.8	0.79933	1794.5	12.7	1864.3	8.7	1942.9	10.9	7.6
Spot 50	1121967	1046523	40569.6	1.9	7.3	0.6	7.3	1.2	0.4	1.0	0.87875	2137.4	18.5	2154.7	10.3	2171.2	9.6	1.6

Spot 51	2508043	2339395	359583.2	2.3	7.6	0.6	6.9	0.9	0.4	0.8	0.80184	2097.9	13.5	2098.3	8.3	2098.6	9.8	0.0
Spot 52	70853	66089	6601.3	4.2	5.7	1.0	11.4	1.4	0.5	0.9	0.68068	2544.2	19.4	2558.7	12.7	2570.1	16.6	1.0
Spot 53	2808260	2619425	34041.2	1.5	7.0	0.5	7.9	1.0	0.4	0.9	0.86069	2206.1	16.4	2223.9	9.2	2240.4	9.0	1.5
Spot 54	1474171	1375043	128913.0	1.6	5.5	0.6	13.0	1.2	0.5	1.0	0.83793	2704.7	21.9	2679.4	11.1	2660.2	10.7	-1.7
Spot 55	2214695	2065773	2471318.0	2.6	7.6	0.6	7.2	1.1	0.4	1.0	0.87231	2156.2	18.2	2133.1	10.1	2110.8	9.7	-2.1
Spot 56	1209528	1128196	108651.9	0.8	8.5	0.5	5.5	1.2	0.3	1.0	0.89401	1908.8	17.1	1903.4	9.9	1897.4	9.3	-0.6
Spot 57	1808441	1686836	29604.7	2.1	4.9	0.6	14.7	1.1	0.5	1.0	0.86864	2729.3	21.5	2797.4	10.6	2846.8	9.0	4.1
Spot 58	1634341	1524443	124976.0	1.6	7.4	0.5	7.6	1.1	0.4	0.9	0.87276	2210.5	17.4	2180.6	9.6	2152.6	9.1	-2.7
Spot 59	1465409	1366870	27253.7	1.7	5.4	0.8	13.0	2.0	0.5	1.8	0.90282	2673.2	38.8	2676.9	18.5	2679.6	14.0	0.2
Spot 60	837367	781060	92025.0	3.6	7.4	0.6	7.7	1.1	0.4	1.0	0.86316	2235.8	18.4	2196.1	10.1	2159.3	9.9	-3.5
Spot 61	1552741	1448331	1418203.3	1.8	7.3	0.7	7.8	1.3	0.4	1.1	0.86054	2225.1	20.9	2205.7	11.6	2187.7	11.4	-1.7
Spot 62	2306167	2151093	217945.6	2.8	7.7	0.6	7.0	1.3	0.4	1.1	0.87654	2123.9	20.2	2106.8	11.3	2090.1	10.8	-1.6
Spot 63	1853120	1728511	95183.0	1.1	8.6	0.5	5.5	1.0	0.3	0.8	0.84249	1914.7	13.9	1902.3	8.6	1888.7	9.6	-1.4
Spot 64	3548365	3309763	21138.7	2.8	7.9	1.8	5.9	2.1	0.3	1.2	0.54625	1897.9	19.1	1965.8	18.5	2038.0	31.5	6.9
Spot 65	2340882	2183475	12996.2	1.0	7.7	1.6	5.5	2.1	0.3	1.4	0.67237	1754.5	21.8	1900.6	18.1	2064.1	27.5	15.0
Spot 66	1969353	1836928	224466.4	1.7	8.6	0.5	5.5	0.9	0.3	0.7	0.84010	1900.0	12.0	1892.9	7.5	1885.2	8.5	-0.8
Spot 67	664660	619966	63071.2	2.3	6.9	0.6	8.7	1.3	0.4	1.1	0.86766	2338.6	21.7	2304.0	11.6	2273.4	10.9	-2.9
Spot 68	2702336	2520623	47805.4	3.5	7.6	0.5	6.9	1.0	0.4	0.9	0.85454	2074.2	15.6	2095.6	9.1	2116.7	9.4	2.0
Spot 69	1532476	1429428	867364.3	2.0	5.1	0.6	15.0	1.1	0.6	0.9	0.82811	2830.0	21.7	2812.3	10.9	2799.6	10.5	-1.1
Spot 71	1364347	1272604	47664.2	1.2	8.7	0.6	5.4	1.2	0.3	1.1	0.89464	1898.9	18.2	1887.0	10.6	1874.0	9.9	-1.3
Spot 72	2978583	2778295	140218.9	1.2	7.6	0.5	7.0	1.0	0.4	0.9	0.86926	2105.2	16.3	2106.2	9.3	2107.2	9.1	0.1
Spot 73	2054274	1916139	95563.5	1.9	8.4	0.5	5.8	0.8	0.4	0.6	0.78417	1959.4	10.6	1945.6	6.9	1931.0	8.9	-1.5
Spot 74	1969058	1836653	120773.8	1.9	5.4	0.6	12.9	1.1	0.5	0.9	0.82775	2652.7	19.0	2669.3	9.9	2681.8	9.8	1.1
Spot 75	2071254	1931977	45002.3	2.4	8.4	0.6	5.6	1.1	0.3	0.8	0.80250	1906.9	13.9	1915.7	9.1	1925.2	11.2	0.9
Spot 76	1230464	1147724	101302.9	1.4	7.7	0.5	7.0	1.0	0.4	0.8	0.86774	2122.2	15.0	2109.2	8.5	2096.5	8.4	-1.2
Spot 77	749464	699068	155495.8	1.6	7.0	0.7	8.4	1.2	0.4	0.9	0.78069	2290.3	17.3	2276.5	10.4	2264.0	12.4	-1.2
Spot 78	2126096	1983132	61291.3	2.1	8.2	0.7	6.0	1.0	0.4	0.8	0.76305	1977.9	13.3	1977.1	8.9	1976.3	11.8	-0.1
Spot 79	3146146	2934590	10039.1	1.9	5.1	0.5	12.9	1.1	0.5	1.0	0.88679	2546.2	21.1	2673.1	10.7	2770.5	8.6	8.1
Spot 80	1724873	1608887	31443.3	1.1	7.2	0.5	7.6	1.0	0.4	0.9	0.88851	2158.0	16.3	2181.8	9.0	2204.2	8.0	2.1
Spot 81	3973659	3706459	50052.8	1.8	7.7	0.6	6.5	1.0	0.4	0.7	0.77499	2010.9	13.0	2045.6	8.5	2080.6	10.8	3.4
Spot 82	3176321	2962736	8823.1	1.4	7.5	2.1	5.5	2.7	0.3	1.8	0.65590	1726.3	27.3	1908.3	23.6	2112.3	36.3	18.3
Spot 83	2039327	1902197	99388.7	1.3	6.1	0.6	11.2	1.1	0.5	0.9	0.82921	2583.6	18.9	2536.2	10.0	2498.5	10.1	-3.4
Spot 84	2031080	1894505	267069.7	1.7	8.2	0.5	6.0	1.1	0.4	1.0	0.90633	1991.1	17.3	1981.6	9.7	1971.7	8.4	-1.0
Spot 85	531477	495739	41429.8	1.7	5.5	0.6	12.6	1.0	0.5	0.8	0.78646	2651.8	17.3	2653.3	9.5	2654.5	10.4	0.1
Spot 86	3466497	3233400	26626.7	2.2	8.1	0.7	5.5	1.1	0.3	0.9	0.80678	1813.5	14.5	1897.4	9.8	1990.5	11.9	8.9
Spot 87	1169791	1091131	185467.9	2.4	5.4	0.6	12.9	1.3	0.5	1.1	0.87736	2650.7	24.2	2672.4	11.9	2688.9	10.0	1.4
Spot 88	1976802	1843876	615052.6	1.6	8.5	0.5	5.4	0.7	0.3	0.6	0.75732	1872.3	9.2	1889.7	6.4	1908.8	8.7	1.9
Spot 89	2794102	2606218	117159.4	3.0	8.5	0.6	5.6	1.1	0.3	0.9	0.85430	1910.4	15.2	1913.4	9.3	1916.6	10.0	0.3
Spot 90	1172506	1093663	137541.7	1.1	8.3	0.6	6.2	1.0	0.4	0.8	0.77750	2033.0	13.3	1998.0	8.6	1962.0	11.0	-3.6
Spot 91	2188907	2041719	170715.0	1.4	7.6	0.5	7.0	0.9	0.4	0.7	0.77572	2129.8	12.1	2114.8	7.7	2100.2	9.6	-1.4
Spot 92	2377558	2217684	1224868.6	2.0	5.4	0.5	12.9	1.1	0.5	1.0	0.88816	2668.7	21.8	2673.2	10.6	2676.7	8.5	0.3
Spot 93	939223	876067	945704.7	2.9	7.6	0.4	7.4	0.9	0.4	0.8	0.88193	2197.1	15.0	2155.8	8.2	2116.7	7.5	-3.8
Spot 94	2231128	2081101	272024.8	1.8	5.4	0.7	12.0	1.1	0.5	0.9	0.77718	2503.4	18.1	2606.0	10.5	2686.7	11.7	6.8

Spot 95	1058115	986965	88830.2	1.5	7.4	0.7	7.7	1.3	0.4	1.1	0.83400	2231.9	20.9	2196.7	12.0	2164.0	12.8	-3.1
Spot 96	1114459	1039519	94582.8	1.9	7.5	0.7	7.2	1.1	0.4	0.9	0.79817	2146.6	15.7	2139.2	9.6	2132.1	11.4	-0.7
Spot 97	2796859	2608790	24078.3	1.8	7.1	0.6	7.7	1.1	0.4	0.9	0.85729	2157.1	17.2	2193.3	9.8	2227.3	9.8	3.2
Spot 98	1044107	973898	80258.2	2.2	5.5	0.6	13.0	0.9	0.5	0.6	0.69816	2709.6	13.3	2681.8	8.1	2660.9	10.2	-1.8
Spot 99	3013711	2811061	56156.8	1.2	8.4	0.4	5.5	1.0	0.3	0.9	0.90841	1894.4	14.2	1907.5	8.2	1921.7	7.2	1.4
Spot 100	1247424	1163544	172038.4	1.1	7.3	0.6	7.7	1.1	0.4	1.0	0.86552	2217.2	18.4	2191.6	10.2	2167.7	9.9	-2.3
Spot 101	967683	902613	116601.4	2.0	5.5	0.7	12.8	1.1	0.5	0.9	0.78759	2666.9	19.7	2666.2	10.8	2665.6	11.7	-0.1
Spot 102	2503836	2335471	11369.3	1.3	7.7	0.7	5.5	1.3	0.3	1.2	0.86686	1752.6	17.7	1907.2	11.4	2079.7	11.7	15.7
Spot 103	1783816	1663867	228336.6	2.3	8.6	0.7	5.5	1.2	0.3	1.0	0.82045	1897.2	15.8	1897.1	10.0	1897.0	12.0	0.0
Spot 104	2613127	2437413	68528.2	2.0	8.5	0.5	5.5	1.0	0.3	0.8	0.85427	1897.1	13.7	1903.7	8.4	1910.7	9.1	0.7
Spot 105	1815007	1692961	112244.6	1.2	8.6	0.5	5.4	1.2	0.3	1.0	0.88567	1892.9	16.9	1888.1	10.0	1882.9	9.7	-0.5
Spot 106	3461027	3228298	181975.5	1.3	5.5	0.6	12.9	1.2	0.5	1.0	0.84578	2680.4	21.4	2672.4	10.9	2666.4	10.2	-0.5
Spot 107	1935527	1805377	86074.2	1.7	7.6	0.6	7.1	1.1	0.4	1.0	0.83132	2139.9	17.4	2119.5	10.2	2099.8	11.2	-1.9
Spot 108	2387385	2226850	118990.8	1.2	7.9	0.6	6.5	1.1	0.4	0.9	0.82941	2041.6	16.5	2040.5	10.0	2039.4	11.2	-0.1
Spot 109	1674431	1561837	107871.9	1.8	8.3	0.7	6.0	1.3	0.4	1.1	0.83974	1989.9	18.2	1975.1	11.0	1959.7	12.3	-1.5
Spot 110	1896619	1769085	104501.1	2.2	7.2	0.6	7.8	1.1	0.4	1.0	0.84701	2221.7	17.9	2209.7	10.1	2198.7	10.4	-1.0
Spot 111	2354603	2196272	52280.7	1.4	8.4	0.5	5.6	0.9	0.3	0.8	0.85698	1913.7	13.4	1920.4	8.2	1927.6	8.7	0.7
Spot 112	1337847	1247887	244189.6	2.2	7.6	0.7	7.1	1.2	0.4	1.0	0.82620	2140.1	17.9	2129.2	10.6	2118.6	11.8	-1.0
Spot 113	2644925	2467073	60562.0	1.5	7.3	0.7	7.3	1.3	0.4	1.0	0.80831	2106.1	18.2	2145.5	11.2	2183.5	12.9	3.5
Spot 114	3417444	3187646	15539.7	2.0	7.7	1.2	6.1	1.6	0.3	1.0	0.63906	1923.4	16.6	1993.0	13.7	2066.0	21.2	6.9
Spot 115	1601181	1493513	1788293.3	1.1	7.7	0.6	6.7	1.1	0.4	0.9	0.80762	2045.7	15.6	2069.6	9.7	2093.6	11.4	2.3
Spot 116	1146934	1069811	174421.9	1.6	7.6	0.6	7.0	1.1	0.4	0.9	0.83632	2123.1	16.6	2115.2	9.8	2107.5	10.6	-0.7
Spot 117	1897050	1769487	97458.1	1.8	5.5	0.6	13.0	1.1	0.5	0.9	0.85153	2694.3	20.0	2681.6	10.1	2672.0	9.3	-0.8
Spot 118	1390288	1296801	15246.2	1.5	7.1	0.6	7.5	1.0	0.4	0.8	0.79340	2115.3	13.9	2168.1	8.7	2218.4	10.2	4.6
Spot 119	1212917	1131357	144776.8	1.3	7.6	0.5	7.2	0.7	0.4	0.5	0.71905	2152.8	9.8	2132.6	6.6	2113.2	9.1	-1.9
Spot 120	1009023	941174	206175.2	2.7	7.4	0.6	7.5	1.2	0.4	1.0	0.84013	2202.8	18.4	2173.6	10.5	2146.1	11.1	-2.6
Spot 121	3219909	3003394	1332081.2	1.9	8.6	0.5	5.5	1.0	0.3	0.9	0.88370	1922.2	15.1	1905.6	8.8	1887.6	8.7	-1.8
Spot 122	2610183	2434667	45464.5	1.9	5.5	0.5	12.7	1.2	0.5	1.1	0.91452	2649.5	23.7	2661.0	11.2	2669.7	8.0	0.8
Spot 123	1646830	1536093	350197.8	2.2	5.9	0.5	11.4	1.2	0.5	1.1	0.89128	2559.0	22.5	2556.0	11.1	2553.6	9.1	-0.2
Spot 125	1916829	1787936	156552.0	3.2	7.2	0.5	7.8	0.9	0.4	0.7	0.82181	2216.3	13.3	2205.2	7.7	2194.9	8.5	-1.0
Spot 126	3390295	3162322	564306.1	2.5	7.3	0.6	7.6	1.2	0.4	1.0	0.87324	2191.7	18.9	2181.8	10.4	2172.6	9.9	-0.9
Spot 127	1450447	1352915	77203.2	2.3	8.5	0.7	5.5	1.2	0.3	1.0	0.84200	1901.9	17.0	1900.1	10.5	1898.1	11.9	-0.2
Spot 128	2671211	2491591	25021.6	1.8	8.1	0.9	5.5	1.5	0.3	1.1	0.77080	1817.9	18.0	1893.8	12.6	1978.1	16.7	8.1
Spot 129	1333417	1243754	172876.5	1.4	8.5	0.6	5.6	0.8	0.3	0.6	0.68175	1927.3	9.6	1913.9	7.3	1899.4	11.1	-1.5
Spot 130	1298861	1211522	46687.1	1.2	8.0	0.6	6.1	0.9	0.4	0.7	0.79520	1988.9	12.7	1996.4	8.1	2004.1	10.0	0.8
Spot 131	834020	777938	91755.3	2.6	5.6	0.5	12.5	1.0	0.5	0.8	0.83623	2668.5	17.8	2639.4	9.1	2617.2	8.9	-2.0
Spot 132	1200025	1119332	36776.6	1.8	5.3	0.6	13.6	1.0	0.5	0.8	0.78242	2720.1	17.9	2721.8	9.7	2723.0	10.6	0.1
Spot 133	1916877	1787981	29305.3	1.4	8.4	0.6	5.5	1.0	0.3	0.8	0.80705	1878.4	13.4	1903.9	8.8	1931.8	10.8	2.8
Spot 134	1521861	1419527	94977.9	1.6	5.5	0.6	13.2	1.3	0.5	1.1	0.88688	2725.1	24.7	2695.0	11.8	2672.4	9.6	-2.0
Spot 135	3366904	3140504	108048.0	2.1	8.6	0.6	4.9	3.0	0.3	2.9	0.97966	1732.1	44.2	1807.1	25.1	1894.7	10.7	8.6
Spot 136	454386	423832	2516.2	2.8	5.2	2.7	11.2	3.0	0.4	1.2	0.41313	2334.0	23.9	2542.2	27.6	2712.7	44.5	14.0
Spot 137	3065094	2858988	39835.3	2.0	8.3	0.7	5.6	1.1	0.3	0.9	0.79156	1884.2	13.9	1911.1	9.2	1940.4	11.7	2.9
Spot 138	3707354	3458061	23639.6	2.0	8.2	0.6	5.5	1.2	0.3	1.1	0.87668	1823.4	17.1	1896.0	10.5	1976.5	10.5	7.7

Spot 139	1333867	1244174	#####	1.6	5.6	0.6	12.4	1.1	0.5	1.0	0.85953	2652.9	21.3	2633.4	10.7	2618.5	9.7	-1.3
Spot 140	3053755	2848412	566620.9	2.7	7.3	0.6	7.6	1.0	0.4	0.8	0.80300	2196.3	14.7	2189.1	8.8	2182.4	10.2	-0.6
Spot 141	2116624	1974296	180542.7	4.5	4.3	0.4	19.5	0.9	0.6	0.8	0.86600	3081.9	19.1	3065.6	8.7	3055.0	7.2	-0.9
Spot 142	1057695	986572	111807.3	1.0	8.6	0.7	5.6	1.3	0.3	1.1	0.83558	1927.9	17.8	1912.9	11.0	1896.7	12.6	-1.6
Spot 143	1323860	1234840	127670.7	2.4	7.6	0.6	7.0	1.0	0.4	0.9	0.82925	2127.4	15.6	2112.2	9.2	2097.3	10.2	-1.4
Spot 144	508341	474158	66548.1	2.2	7.3	0.8	7.5	1.2	0.4	0.9	0.75321	2172.0	16.7	2168.1	10.8	2164.3	13.8	-0.4
Spot 145	3243753	3025634	291606.5	2.1	5.5	0.5	12.9	0.9	0.5	0.7	0.84767	2678.9	16.4	2668.9	8.3	2661.3	7.8	-0.7
Spot 146	2129503	1986310	65626.1	1.0	5.0	0.5	14.5	0.7	0.5	0.6	0.78225	2730.3	12.7	2783.5	6.9	2822.3	7.4	3.3
Spot 147	2525158	2355359	30565.2	1.0	5.4	0.4	12.5	1.0	0.5	0.9	0.88852	2574.3	18.1	2644.5	9.0	2698.6	7.3	4.6
Spot 148	1247585	1163694	601042.7	8.9	4.9	0.5	15.5	1.0	0.6	0.9	0.87830	2862.8	20.5	2847.6	9.6	2836.8	7.9	-0.9
Spot 149	1571518	1465844	65992.6	1.6	8.5	0.6	5.4	1.0	0.3	0.8	0.80848	1865.9	13.2	1880.0	8.6	1895.6	10.6	1.6
Spot 150	3745412	3493560	748803.6	3.4	5.4	0.5	13.1	1.0	0.5	0.9	0.85596	2693.0	19.4	2683.3	9.7	2676.1	8.8	-0.6
Spot 151	1287997	1201389	545282.3	1.3	7.6	0.5	6.9	0.9	0.4	0.7	0.85123	2088.8	13.1	2093.9	7.7	2098.8	8.0	0.5
Spot 152	2437215	2273329	169768.1	4.2	7.5	0.5	7.1	0.9	0.4	0.7	0.82413	2135.1	13.3	2129.1	7.9	2123.4	8.8	-0.6
Spot 153	1728654	1612415	12391.1	2.1	7.8	0.8	5.8	1.0	0.3	0.7	0.68451	1863.6	11.6	1952.8	9.0	2048.7	13.4	9.0
Spot 154	1413497	1318449	1447222.6	1.1	7.4	0.5	7.2	1.0	0.4	0.8	0.83336	2132.9	14.6	2140.0	8.6	2146.8	9.3	0.6
Spot 155	1407640	1312987	628663.3	1.3	7.7	0.7	6.8	1.2	0.4	1.0	0.79873	2080.1	17.1	2084.7	10.6	2089.2	12.7	0.4
Spot 156	933635	870855	104836.6	1.0	7.5	0.5	7.2	1.0	0.4	0.8	0.83273	2137.7	14.7	2138.3	8.6	2138.8	9.4	0.1
Spot 157	3369806	3143210	94119.9	2.1	7.5	0.5	6.8	1.0	0.4	0.8	0.82355	2058.3	13.8	2091.8	8.4	2125.0	9.5	3.1
Spot 158	1247576	1163686	173904.2	1.4	7.4	0.4	7.2	1.1	0.4	1.0	0.90843	2118.5	17.2	2134.6	9.4	2150.1	7.7	1.5
Spot 160	2041997	1904687	89076.7	1.1	8.1	0.6	6.1	0.9	0.4	0.7	0.80524	1994.6	12.9	1991.3	8.1	1988.0	9.8	-0.3
Spot 162	750108	699669	58408.2	1.8	7.5	0.7	7.2	1.1	0.4	0.9	0.78863	2134.1	16.4	2134.2	10.2	2134.3	12.3	0.0
Spot 163	1457345	1359349	316404.4	1.8	7.4	0.5	7.5	1.2	0.4	1.1	0.88681	2174.4	19.4	2170.4	10.6	2166.6	9.6	-0.4
Spot 164	2077275	1937593	360212.9	1.3	3.7	0.6	21.7	1.0	0.6	0.8	0.80387	2998.4	19.3	3168.6	9.7	3278.2	9.4	8.5
Spot 165	1349782	1259019	107472.7	2.3	8.5	0.6	5.6	0.9	0.3	0.7	0.73523	1920.6	11.2	1915.2	7.9	1909.3	11.1	-0.6
Spot 166	2224553	2074967	163067.3	1.6	8.3	0.5	5.7	1.1	0.3	1.0	0.88127	1920.1	16.4	1935.2	9.7	1951.5	9.4	1.6
Spot 167	5664688	5283779	100679.7	1.7	4.5	0.5	19.2	0.9	0.6	0.8	0.84677	3139.6	19.4	3053.3	8.9	2996.9	7.9	-4.8
Spot 168	1733361	1616805	143814.8	2.1	5.5	0.7	12.9	1.1	0.5	0.9	0.80600	2671.3	20.0	2670.1	10.7	2669.2	11.1	-0.1
Spot 169	2727804	2544379	1179487.9	11.2	7.6	0.4	7.0	1.0	0.4	0.9	0.88977	2112.8	15.4	2115.2	8.5	2117.5	7.7	0.2
Spot 170	560444	522758	136117.8	1.8	5.5	0.5	13.0	0.9	0.5	0.8	0.83255	2698.2	17.1	2681.0	8.8	2668.1	8.5	-1.1
Spot 171	2527330	2357385	94044.2	1.9	8.6	0.7	5.8	1.0	0.4	0.8	0.77404	1990.1	13.7	1945.4	9.0	1898.2	11.8	-4.8
Spot 172	2426766	2263584	33327.4	1.4	7.2	0.6	6.8	1.6	0.4	1.5	0.92171	1974.6	25.2	2081.8	14.2	2189.5	10.8	9.8
Spot 173	1029384	960165	202467.1	0.6	5.7	0.7	12.0	1.1	0.5	0.9	0.78420	2608.3	18.5	2606.2	10.3	2604.6	11.3	-0.1
Spot 174	1746732	1629277	34794.2	1.5	7.3	0.6	7.5	1.0	0.4	0.8	0.78164	2162.6	14.7	2175.2	9.2	2187.1	11.1	1.1
Spot 175	2284858	2131217	112601.9	2.7	7.6	0.5	7.1	1.2	0.4	1.0	0.89695	2140.3	18.9	2121.3	10.3	2102.9	9.0	-1.8
Spot 176	1967213	1834932	2645754.6	1.8	5.5	0.5	12.9	0.9	0.5	0.8	0.83138	2670.6	16.9	2673.6	8.8	2675.9	8.6	0.2
Spot 177	1761939	1643461	94622.9	2.2	8.6	0.5	5.5	1.1	0.3	1.0	0.87834	1917.5	16.0	1904.9	9.5	1891.2	9.5	-1.4
Spot 178	1554704	1450161	194565.0	1.9	5.5	0.6	12.9	1.1	0.5	0.9	0.83451	2672.2	20.2	2674.0	10.4	2675.3	10.1	0.1
Spot 179	3010498	2808064	181685.3	4.8	5.0	0.6	14.9	1.1	0.5	1.0	0.86768	2800.2	22.0	2809.4	10.6	2816.0	9.1	0.6
Spot 180	1486314	1386370	159019.6	1.8	7.0	0.5	8.2	1.0	0.4	0.8	0.84998	2245.7	16.0	2253.4	9.0	2260.3	9.0	0.6
Spot 181	2029028	1892590	32353.2	2.1	8.3	0.7	5.6	1.0	0.3	0.7	0.68613	1877.7	11.0	1914.1	8.4	1953.8	12.7	3.9
Spot 182	803400	749378	128699.1	2.4	5.5	0.5	13.3	1.0	0.5	0.8	0.85459	2733.2	18.6	2699.4	9.2	2674.2	8.4	-2.2
Spot 183	2823076	2633245	36868.2	3.3	7.4	0.6	7.1	1.3	0.4	1.2	0.89331	2085.8	21.0	2123.7	11.7	2160.7	10.3	3.5

Spot 184	1402271	1307979	105157.3	2.2	7.3	0.7	7.5	1.0	0.4	0.7	0.67917	2150.6	12.2	2170.9	8.8	2190.1	12.5	1.8
Spot 185	773741	721712	36101.7	1.0	7.5	0.6	7.2	1.1	0.4	1.0	0.86756	2141.4	17.6	2134.8	9.9	2128.5	9.7	-0.6
Spot 186	2203834	2055642	95767.8	1.6	7.4	0.5	7.4	0.9	0.4	0.8	0.84881	2173.0	14.7	2160.6	8.4	2148.9	8.7	-1.1
Spot 187	1565370	1460111	105834.7	2.1	5.6	0.6	12.4	0.9	0.5	0.7	0.77812	2628.2	15.9	2633.3	8.9	2637.3	9.9	0.3
Spot 188	1451571	1353963	88595.2	1.5	7.7	0.6	7.0	1.2	0.4	1.0	0.85879	2129.4	18.7	2108.1	10.7	2087.4	10.8	-2.0
Spot 189	3493826	3258891	67873.5	2.4	5.0	0.5	13.8	1.3	0.5	1.2	0.91378	2636.0	25.3	2735.1	12.1	2809.1	8.5	6.2
Spot 190	862887	804864	7147.5	1.0	3.9	0.7	21.8	1.1	0.6	0.8	0.78682	3136.1	20.8	3176.7	10.3	3202.5	10.4	2.1
Spot 191	3856811	3597468	119904.8	0.9	7.7	0.4	6.7	0.9	0.4	0.8	0.86652	2070.1	13.6	2077.8	7.8	2085.5	7.8	0.7
Spot 192	2156846	2011814	930948.9	1.7	5.5	0.6	13.3	1.0	0.5	0.8	0.82149	2731.5	18.7	2699.1	9.7	2674.9	9.7	-2.1
Spot 193	864520	806387	83898.3	1.5	7.3	0.6	8.0	1.1	0.4	1.0	0.83042	2273.5	18.2	2229.3	10.3	2189.0	11.1	-3.9
Spot 194	1392128	1298518	456696.2	2.2	5.5	0.6	13.0	1.0	0.5	0.9	0.82113	2691.6	18.9	2682.7	9.9	2676.1	9.9	-0.6
Spot 195	310453	289577	490383.4	1.4	3.7	0.6	24.8	1.5	0.7	1.3	0.90890	3320.0	35.0	3299.1	14.5	3286.3	9.7	-1.0
Spot 196	2251830	2100410	2164843.5	2.2	5.4	0.6	13.4	1.0	0.5	0.8	0.80393	2735.3	17.1	2709.6	9.0	2690.5	9.4	-1.7
Spot 197	1078927	1006377	417715.1	2.2	5.4	0.6	12.7	1.0	0.5	0.9	0.81602	2627.9	18.4	2659.9	9.8	2684.4	10.0	2.1
Spot 198	1108021	1033514	206129.4	1.5	6.9	0.5	8.6	1.1	0.4	1.0	0.87155	2301.0	18.4	2296.7	9.9	2292.9	9.2	-0.4
Spot 199	1806699	1685211	21408.0	1.0	7.1	0.6	7.6	0.9	0.4	0.6	0.71011	2143.5	11.2	2184.0	7.8	2222.2	10.6	3.5
Spot 200	1734960	1618296	68264.3	1.6	5.4	0.5	13.2	0.9	0.5	0.8	0.83004	2693.0	16.8	2692.0	8.7	2691.3	8.5	-0.1
Spot 201	1286014	1199539	333869.8	2.2	7.2	0.5	7.8	1.0	0.4	0.9	0.85334	2215.2	16.1	2210.9	9.1	2207.0	9.1	-0.4
Spot 202	1490233	1390026	145507.4	1.5	8.6	0.5	5.6	1.1	0.3	0.9	0.85679	1924.1	15.1	1913.6	9.1	1902.2	9.8	-1.2
Spot 203	2059481	1920996	20358.8	3.4	7.0	0.7	7.3	1.3	0.4	1.1	0.83408	2050.6	19.5	2152.5	11.9	2251.2	12.7	8.9
Spot 204	310914	290008	15887.1	1.6	7.2	1.1	7.3	1.5	0.4	1.1	0.70451	2107.6	19.6	2149.7	13.8	2190.1	19.1	3.8
Spot 205	2593619	2419217	108004.7	1.3	8.6	0.5	5.4	1.0	0.3	0.9	0.86025	1867.6	14.4	1884.8	8.9	1903.7	9.5	1.9
Spot 206	1476222	1376956	90362.8	2.0	8.5	0.5	5.4	1.0	0.3	0.9	0.85564	1859.7	14.0	1887.0	8.7	1917.1	9.4	3.0
Spot 207	514516	479919	67458.5	1.7	5.4	0.6	13.4	0.9	0.5	0.7	0.74250	2729.5	14.9	2711.5	8.5	2698.1	10.0	-1.2
Spot 208	1989445	1855669	48203.0	1.7	8.4	0.6	5.5	1.1	0.3	0.9	0.84806	1881.9	14.6	1903.1	9.0	1926.2	10.0	2.3
Spot 209	1627753	1518299	384927.1	1.9	8.6	0.5	5.6	1.0	0.3	0.8	0.84917	1928.9	13.5	1911.5	8.2	1892.6	9.0	-1.9
Spot 210	1106683	1032266	123799.3	1.9	7.8	0.6	6.6	1.1	0.4	0.9	0.81915	2052.7	16.0	2060.9	9.8	2069.2	11.2	0.8
Spot 211	1387057	1293788	24322.2	1.1	7.9	0.5	6.0	0.8	0.3	0.6	0.78185	1921.5	10.2	1975.7	6.8	2033.0	8.6	5.5
Spot 212	2051040	1913122	362385.0	4.5	4.7	0.5	17.2	0.9	0.6	0.8	0.86357	2954.9	18.6	2945.9	8.7	2939.8	7.4	-0.5
Spot 213	538577	502362	96324.6	2.3	6.1	0.6	11.0	1.2	0.5	1.1	0.88706	2558.7	22.6	2518.9	11.2	2487.0	9.4	-2.9
Spot 214	2708138	2526035	580874.7	1.9	5.5	0.6	12.8	1.0	0.5	0.8	0.82585	2651.6	18.0	2666.5	9.5	2677.8	9.4	1.0
Spot 215	930150	867604	145329.9	1.6	7.1	0.5	8.2	0.9	0.4	0.7	0.83201	2262.6	14.3	2254.8	8.1	2247.8	8.6	-0.7
Spot 216	989810	923253	71554.1	2.3	5.5	0.4	13.0	0.9	0.5	0.8	0.87809	2688.3	18.2	2681.0	8.9	2675.5	7.5	-0.5
Spot 217	2731196	2547543	109452.2	1.3	8.6	0.7	5.5	1.4	0.3	1.2	0.87439	1902.5	20.1	1899.5	12.0	1896.2	12.2	-0.3
Spot 218	1886289	1759449	86111.8	1.3	8.3	0.7	5.6	1.1	0.3	0.8	0.76734	1896.3	13.8	1922.4	9.5	1950.8	12.6	2.8
Spot 219	16026444	14948780	8108.2	10.1	7.2	1.8	7.4	2.1	0.4	1.2	0.56067	2126.8	21.6	2162.7	19.1	2197.0	30.6	3.2
Spot 220	2400622	2239197	35295.6	0.9	8.4	0.5	5.7	0.9	0.3	0.8	0.83502	1927.4	12.7	1926.9	7.9	1926.3	9.0	-0.1
Spot 221	2245996	2094969	133024.8	1.3	7.9	0.5	6.6	1.0	0.4	0.8	0.83194	2067.9	14.0	2055.5	8.4	2043.1	9.3	-1.2
Spot 222	717704	669444	46204.8	1.3	5.5	0.7	12.6	1.1	0.5	0.9	0.79316	2620.4	18.8	2647.4	10.3	2668.1	11.1	1.8
Spot 223	1687702	1574216	91996.9	3.5	8.5	0.6	5.6	1.0	0.3	0.8	0.80125	1924.6	14.0	1919.0	9.0	1912.9	11.3	-0.6
Spot 224	1098220	1024372	49779.6	1.1	8.3	0.8	5.9	1.1	0.4	0.7	0.68122	1974.9	12.7	1967.4	9.5	1959.5	14.3	-0.8
Spot 225	867749	809399	100260.7	1.3	8.6	0.7	5.5	1.1	0.3	0.9	0.80984	1893.8	15.2	1898.2	9.8	1903.1	12.1	0.5
Spot 226	2818390	2628873	72195.7	1.4	8.5	0.6	5.6	1.2	0.3	1.0	0.85168	1906.3	16.5	1912.0	10.1	1918.2	11.0	0.6

Spot 227	2186955	2039898	764080.1	1.2	8.7	0.4	5.4	1.0	0.3	1.0	0.92952	1899.4	15.7	1890.8	8.8	1881.4	6.8	-1.0
Spot 228	2834231	2643649	85747.6	2.0	7.7	0.6	6.9	1.0	0.4	0.8	0.83040	2100.3	15.1	2100.4	9.0	2100.5	9.9	0.0
Spot 229	1419215	1323783	868955.5	2.2	5.5	0.6	13.0	1.1	0.5	0.9	0.84169	2692.9	20.4	2680.1	10.4	2670.4	9.9	-0.8
Spot 230	1491443	1391154	101389.7	2.4	7.6	0.6	7.2	0.8	0.4	0.6	0.69397	2141.6	10.6	2133.9	7.5	2126.6	10.6	-0.7
Spot 231	782957	730309	19415.9	1.7	7.8	0.9	6.6	1.5	0.4	1.2	0.78975	2062.9	21.3	2064.7	13.5	2066.5	16.5	0.2
Spot 232	1663065	1551236	89575.0	1.2	7.4	0.5	7.4	0.9	0.4	0.7	0.83996	2176.0	13.4	2164.4	7.7	2153.5	8.2	-1.0
Spot 233	1054845	983914	331088.8	1.7	7.5	0.6	7.3	0.8	0.4	0.6	0.70836	2150.5	11.0	2147.7	7.6	2144.9	10.5	-0.3
Spot 234	634450	591788	49011.1	1.3	7.1	0.8	7.9	1.2	0.4	0.9	0.74904	2191.0	17.0	2218.3	11.0	2243.5	14.0	2.3
Spot 235	1810018	1688307	43721.0	1.4	8.3	0.6	5.8	0.8	0.4	0.6	0.73506	1948.5	10.1	1953.3	7.1	1958.4	9.9	0.5
Spot 236	646662	603179	216210.5	2.4	7.5	0.7	7.4	1.1	0.4	0.8	0.74587	2188.8	14.7	2157.8	9.5	2128.3	12.4	-2.8
Spot 237	856534	798938	71876.0	1.7	7.3	0.6	7.7	1.0	0.4	0.8	0.77551	2197.8	14.5	2193.7	9.0	2189.9	11.0	-0.4
Spot 238	1245750	1161982	685322.2	3.4	7.5	0.5	7.4	1.1	0.4	0.9	0.87779	2181.8	17.1	2161.1	9.4	2141.6	8.8	-1.9
Spot 239	2103827	1962359	283322.2	1.1	7.7	0.6	6.9	1.0	0.4	0.8	0.80749	2121.5	14.1	2104.6	8.6	2088.1	10.0	-1.6
Spot 240	782300	729696	180556.7	3.4	7.6	0.5	7.1	0.9	0.4	0.7	0.81949	2128.0	13.5	2122.6	8.1	2117.3	9.2	-0.5
Spot 241	543298	506765	42266.8	1.8	7.2	0.5	8.1	0.8	0.4	0.7	0.80464	2283.4	12.9	2245.8	7.6	2211.7	8.6	-3.2
Spot 242	2876538	2683111	90971.2	1.3	8.2	0.4	5.8	1.0	0.3	1.0	0.92624	1913.8	15.9	1944.2	9.0	1976.8	7.0	3.2
Spot 243	1784725	1664715	217693.7	3.0	7.5	0.6	7.1	1.0	0.4	0.8	0.82824	2106.0	14.7	2127.4	8.8	2148.0	9.6	2.0
Spot 244	789496	736408	90297.1	1.6	7.5	0.6	7.4	0.9	0.4	0.7	0.75877	2177.2	12.4	2156.7	7.9	2137.1	10.1	-1.9
Spot 245	2079629	1939789	158616.6	2.5	8.4	0.6	5.9	1.0	0.4	0.9	0.84804	1984.2	15.2	1964.6	9.1	1944.0	9.9	-2.1
Spot 246	1999249	1864814	73746.4	1.7	8.2	0.7	5.6	1.4	0.3	1.2	0.86468	1872.6	19.5	1922.4	11.9	1976.5	12.4	5.3
Spot 247	1043566	973394	58630.2	2.2	6.3	0.5	10.1	0.9	0.5	0.7	0.79541	2440.8	14.6	2443.9	8.3	2446.5	9.3	0.2
Spot 248	2542070	2371134	38497.4	3.4	7.2	0.7	6.9	1.0	0.4	0.8	0.73853	2004.5	13.4	2100.3	9.3	2195.6	12.3	8.7
Spot 249	2123768	1980960	193502.8	2.6	8.6	0.7	5.5	1.2	0.3	1.0	0.81588	1903.8	16.3	1897.7	10.4	1890.9	12.6	-0.7
Spot 250	2906227	2710804	195120.9	1.5	8.6	0.6	5.4	1.3	0.3	1.1	0.88883	1867.6	18.4	1879.3	10.9	1892.3	10.5	1.3
Spot 251	3298892	3077066	23741.1	1.3	8.0	0.5	5.3	1.1	0.3	0.9	0.85624	1732.3	13.8	1867.3	9.1	2021.1	9.7	14.3
Spot 252	1691007	1577298	25747.0	1.7	8.4	0.7	5.7	1.1	0.3	0.8	0.72145	1914.0	12.8	1925.3	9.3	1937.4	13.3	1.2
Spot 253	613439	572190	14618.0	1.0	6.7	1.1	8.4	1.3	0.4	0.7	0.53390	2217.3	13.2	2277.6	12.0	2332.2	19.1	4.9
Spot 254	1598864	1491352	120065.2	0.6	8.3	0.5	6.0	0.8	0.4	0.6	0.81588	1977.3	10.9	1968.6	6.8	1959.5	8.1	-0.9
Spot 255	1957845	1826194	435865.1	1.6	7.6	0.8	7.1	1.7	0.4	1.5	0.88597	2122.9	27.2	2121.4	15.1	2119.9	13.8	-0.1
Spot 256	1014163	945967	15636.3	1.2	7.2	1.0	7.3	1.3	0.4	0.8	0.63241	2081.6	15.1	2144.8	12.0	2205.8	18.0	5.6
Spot 257	1645307	1534672	123944.2	1.2	8.6	0.5	5.4	0.9	0.3	0.7	0.78288	1877.7	11.0	1880.5	7.4	1883.6	9.6	0.3
Spot 258	1881332	1754826	352896.3	1.2	6.9	0.5	8.4	1.0	0.4	0.8	0.85798	2277.9	16.2	2275.3	8.9	2272.8	8.7	-0.2
Spot 259	1793759	1673142	95765.2	2.1	7.1	0.5	7.8	1.0	0.4	0.9	0.85718	2179.9	16.3	2206.6	9.3	2231.4	9.2	2.3
Spot 260	1523977	1421500	9409.1	1.5	5.7	0.8	11.0	1.0	0.5	0.6	0.59671	2427.5	12.3	2523.8	9.4	2602.2	13.6	6.7
Spot 261	1261866	1177014	276775.8	2.6	5.5	0.5	13.0	1.1	0.5	1.0	0.88918	2690.3	22.5	2681.0	10.8	2673.9	8.7	-0.6
Spot 262	2378832	2218872	170510.7	2.0	8.5	0.6	5.5	1.0	0.3	0.8	0.77955	1911.0	12.8	1907.6	8.6	1903.8	11.2	-0.4
Spot 264	749783	699365	103770.1	1.0	6.7	0.6	8.9	1.0	0.4	0.8	0.80440	2321.5	16.1	2326.9	9.4	2331.6	10.5	0.4
Spot 265	2932224	2735053	10108.0	1.0	6.6	0.6	8.3	1.3	0.4	1.2	0.89545	2178.2	21.6	2268.4	11.8	2350.7	9.9	7.3
Spot 266	2038223	1901167	192265.0	1.4	7.8	0.5	6.8	0.8	0.4	0.6	0.72758	2099.5	10.2	2081.2	6.9	2063.2	9.4	-1.8
Spot 267	1189259	1109290	403545.2	2.8	7.4	0.6	7.3	0.9	0.4	0.8	0.80333	2156.3	13.9	2152.0	8.4	2147.9	9.8	-0.4
Spot 268	843735	787000	107146.7	0.9	7.6	0.7	7.2	1.1	0.4	0.8	0.73444	2166.1	14.4	2134.5	9.5	2104.3	12.7	-2.9
Spot 269	1876847	1750643	625460.7	2.0	5.6	0.5	12.6	0.9	0.5	0.7	0.80752	2663.3	16.4	2650.8	8.7	2641.4	9.1	-0.8
Spot 270	868499	810098	#####	2.1	7.6	0.7	7.3	1.0	0.4	0.7	0.70648	2171.6	13.6	2144.0	9.3	2117.7	13.0	-2.5

Spot 271	1755264	1637235	204546.0	2.1	5.5	0.5	12.9	1.1	0.5	1.0	0.89070	2670.2	22.2	2669.6	10.7	2669.1	8.6	0.0
Spot 272	2088504	1948067	942151.4	1.9	8.5	0.7	5.5	1.2	0.3	1.0	0.84687	1897.0	17.1	1904.3	10.6	1912.2	11.7	0.8
Spot 273	1820523	1698106	157937.5	0.9	7.7	0.5	6.7	0.9	0.4	0.7	0.79369	2064.7	12.3	2074.1	7.7	2083.5	9.4	0.9
Spot 274	219003	204277	24887.6	1.1	8.5	0.9	5.3	1.3	0.3	0.9	0.71860	1828.4	14.4	1861.4	10.7	1898.5	15.7	3.7
Spot 275	1296435	1209259	36489.5	3.3	7.1	0.6	8.1	1.2	0.4	1.0	0.84815	2284.7	19.8	2246.5	11.0	2211.7	11.2	-3.3
Spot 276	202787	189151	15446.1	0.4	5.6	0.7	12.9	1.1	0.5	0.9	0.79397	2731.1	20.1	2675.0	10.7	2632.8	11.5	-3.7
Spot 277	2377814	2217923	259892.7	2.5	5.5	0.6	13.1	1.0	0.5	0.8	0.81005	2718.4	18.2	2690.1	9.5	2668.9	9.8	-1.9
Spot 278	2509662	2340905	12039.1	2.1	7.6	1.0	6.1	1.3	0.3	0.8	0.61711	1898.3	12.9	1988.0	11.1	2082.7	17.7	8.9
Spot 279	1929305	1799573	103481.3	0.7	8.3	0.7	5.5	1.2	0.3	0.9	0.76876	1878.8	14.6	1907.2	10.0	1938.2	13.3	3.1
Spot 280	522790	487636	86598.4	2.0	3.8	1.0	24.8	1.5	0.7	1.1	0.75073	3353.9	29.1	3299.8	14.5	3267.2	15.4	-2.7
Spot 281	1603089	1495293	1167701.8	2.6	5.5	0.6	13.0	1.2	0.5	1.0	0.87083	2691.3	22.5	2678.2	11.1	2668.3	9.6	-0.9
Spot 282	2050676	1912783	651684.3	1.8	5.4	0.5	12.7	0.9	0.5	0.8	0.85005	2640.1	17.1	2658.8	8.7	2673.1	8.1	1.2
Spot 283	1113487	1038613	53667.1	1.0	5.6	0.6	12.1	1.0	0.5	0.9	0.83945	2621.1	19.0	2615.9	9.8	2611.8	9.5	-0.4
Spot 284	1532059	1429039	82817.7	1.5	7.6	0.6	7.1	1.1	0.4	0.9	0.82633	2151.5	17.2	2125.4	10.1	2100.2	11.2	-2.4
Spot 285	3359138	3133260	246745.3	4.7	6.3	0.6	9.7	1.3	0.4	1.1	0.88585	2389.3	22.1	2408.3	11.5	2424.4	9.9	1.4
Spot 286	1583401	1476929	42816.6	1.6	7.4	0.5	7.2	0.9	0.4	0.8	0.81527	2150.7	14.0	2142.7	8.4	2135.0	9.5	-0.7
Spot 287	957862	893453	90126.0	2.4	7.4	0.5	7.2	1.0	0.4	0.9	0.87025	2127.2	15.5	2135.6	8.8	2143.7	8.5	0.8
Spot 288	381130	355501	177639.7	2.7	6.5	0.7	9.7	1.2	0.5	1.0	0.84479	2427.1	21.0	2404.7	11.3	2385.8	11.2	-1.7
Spot 289	3855257	3596018	211266.6	3.1	5.5	0.7	13.0	1.2	0.5	1.0	0.82627	2698.1	21.6	2677.4	11.2	2661.8	11.1	-1.4
Spot 291	1045404	975108	89704.0	3.4	7.5	0.5	7.2	1.0	0.4	0.9	0.85088	2131.0	15.7	2132.8	9.1	2134.6	9.4	0.2
Spot 292	2319487	2163518	20880.6	5.0	5.5	0.5	11.5	1.0	0.5	0.9	0.87571	2457.0	18.2	2568.1	9.5	2657.0	8.2	7.5
Spot 293	1044687	974439	199951.9	1.9	5.8	0.6	11.4	1.2	0.5	1.1	0.87461	2558.5	22.3	2558.6	11.3	2558.7	9.8	0.0
Spot 294	2729840	2546278	422392.5	2.2	5.0	0.5	15.2	1.1	0.6	1.0	0.88298	2844.2	22.7	2825.4	10.6	2812.0	8.6	-1.1
Spot 295	1260632	1175864	7204.3	2.0	5.6	1.1	10.9	1.4	0.4	0.8	0.56979	2377.5	15.8	2510.6	12.9	2620.0	19.0	9.3
Spot 296	396540	369875	111731.0	0.5	7.6	0.7	7.1	1.1	0.4	0.9	0.78564	2145.8	16.2	2118.6	10.1	2092.2	12.3	-2.6
Spot 297	1445771	1348553	714972.2	1.3	7.2	0.7	7.7	1.1	0.4	0.9	0.80285	2189.0	16.9	2194.6	10.2	2199.8	11.8	0.5
Spot 298	722053	673500	117618.5	3.1	7.4	0.6	7.4	1.1	0.4	0.9	0.84052	2173.3	16.9	2164.1	9.7	2155.5	10.3	-0.8
Spot 299	798923	745201	580283.8	2.8	7.5	0.6	7.1	0.9	0.4	0.7	0.75391	2121.9	11.8	2118.6	7.7	2115.3	10.0	-0.3
Spot 300	2603664	2428587	317001.4	2.2	5.5	0.5	13.1	1.1	0.5	1.0	0.89122	2728.7	22.0	2684.2	10.5	2650.9	8.4	-2.9
Spot 301	3344999	3120071	1977041.7	1.6	5.5	0.4	12.6	0.9	0.5	0.8	0.86900	2661.3	16.6	2651.5	8.3	2644.1	7.2	-0.6
Spot 302	1229086	1146439	117875.8	1.7	7.6	0.6	6.9	1.0	0.4	0.8	0.76175	2110.7	13.6	2101.1	8.8	2091.6	11.3	-0.9
Spot 303	2268622	2116074	1744640.9	2.0	7.2	0.6	7.7	1.5	0.4	1.4	0.92142	2207.1	26.3	2199.3	13.7	2192.0	10.3	-0.7
Spot 304	2165867	2020228	89769.8	1.3	8.5	0.5	5.3	1.0	0.3	0.9	0.84741	1862.9	13.8	1876.8	8.6	1892.3	9.6	1.6
Spot 305	1471928	1372951	145365.5	2.6	8.6	0.5	5.5	1.1	0.3	1.0	0.88914	1921.2	16.9	1896.5	9.8	1869.6	9.4	-2.8
Spot 306	803858	749804	71950.6	1.8	7.5	0.6	7.3	1.1	0.4	0.9	0.81761	2174.5	16.1	2143.1	9.5	2113.1	10.8	-2.9
Spot 307	894617	834460	104053.3	1.5	7.3	0.7	7.6	1.0	0.4	0.7	0.71685	2201.2	13.0	2180.4	8.7	2161.0	11.9	-1.9
Spot 308	882934	823563	86004.0	2.8	7.5	0.6	7.3	1.0	0.4	0.8	0.81545	2182.2	15.0	2153.6	8.9	2126.5	10.1	-2.6
Spot 309	1666525	1554463	104976.5	0.5	8.3	0.5	5.9	0.9	0.4	0.8	0.84866	1976.0	13.5	1964.2	8.1	1951.8	8.8	-1.2
Spot 311	2426416	2263257	155657.8	1.6	6.3	0.8	9.5	1.2	0.4	0.8	0.69541	2343.4	16.1	2387.4	10.8	2425.1	14.4	3.4
Spot 312	1429656	1333522	102313.9	2.3	5.4	0.5	13.2	1.0	0.5	0.8	0.84712	2729.7	18.3	2696.0	9.2	2670.8	8.5	-2.2
Spot 313	3562485	3322934	7467.0	3.1	7.1	1.1	6.2	1.8	0.3	1.4	0.78137	1834.1	21.8	2010.9	15.3	2197.7	19.0	16.5
Spot 314	1531367	1428393	253871.5	3.7	7.6	0.7	6.9	1.1	0.4	0.9	0.78712	2076.8	15.4	2093.0	9.8	2109.0	12.0	1.5
Spot 315	2331037	2174292	11436.0	1.4	6.5	0.8	7.5	1.2	0.4	1.0	0.77802	1983.3	16.6	2168.1	11.2	2347.9	13.4	15.5

Run 3 (discordant)

Spot 124	10235707	9547429	4559.7	1.8	6.8	1.7	6.7	2.9	0.3	2.4	0.81320	1827.3	37.7	2067.2	25.7	2315.6	29.1	21.1
Spot 14	1601320	1493643	150958.7	1.5	7.4	0.6	5.7	1.5	0.3	1.4	0.91572	1712.4	20.3	1924.3	12.7	2161.0	10.4	20.8
Spot 159	3121703	2911791	6762.6	2.2	7.4	1.9	5.0	2.9	0.3	2.3	0.76618	1547.8	31.0	1827.2	24.9	2162.5	32.9	28.4
Spot 161	27273676	25439717	73211.9	10.6	9.3	0.6	3.5	1.0	0.2	0.8	0.79480	1351.0	9.3	1520.7	7.5	1765.7	10.6	23.5
Spot 290	1733811	1617225	24243.5	1.0	8.2	0.8	4.6	2.5	0.3	2.4	0.95313	1552.8	33.3	1747.4	21.1	1988.9	13.6	21.9
Spot 310	3260314	3041081	6646.9	1.6	7.3	0.7	5.7	1.3	0.3	1.1	0.82161	1700.2	16.1	1933.8	11.3	2194.3	13.0	22.5
Spot 70	1175640	1096587	63627.2	1.7	8.6	0.6	5.8	1.1	0.4	0.9	0.85414	2001.8	15.7	1950.9	9.3	1897.3	10.0	-5.5

TABLE S19: RORA MED (CA) LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition										Ages						% Disc.	
	U (238 cps)	U (norm) (238 cps)	206Pb/ 204Pb	U/Th	206Pb/ 1σ 207Pb (%)	207Pb/ 235U	1σ (%)	206Pb/ 1σ 238U (%)	Error Corr.	206Pb/ 238U	1σ (Ma)	207Pb/ 235U	1σ (Ma)	206Pb/ 207Pb	1σ (Ma)			
<i>Run 1 (Sept 2021)</i>																		
Spot 2	239673	302956	10963.2	0.776	4.2	1.2	20.1	2.4	0.6	2.06	0.86866	3029.2	49.7	3096.0	22.9	3139.6	19	3.5
Spot 3	1460885	1846616	47780.6	1.383	7.8	1.0	7.0	1.6	0.4	1.28	0.78575	2125.9	23.2	2108.7	14.5	2091.9	18	-1.6
Spot 4	671762	849133	32009.2	1.869	7.3	0.8	8.1	1.3	0.4	1.08	0.80459	2259.7	20.5	2237.2	12.1	2216.6	14	-1.9
Spot 5	778502	984056	12228.3	2.097	7.3	0.9	7.4	1.7	0.4	1.47	0.86187	2119.3	26.5	2159.6	15.2	2198.1	15	3.6
Spot 6	637585	805933	6920.9	2.178	5.5	0.8	13.1	1.4	0.5	1.14	0.82069	2682.0	25.0	2685.4	13.1	2687.9	13	0.2
Spot 7	527235	666445	10770.0	2.438	5.4	0.7	13.2	1.5	0.5	1.30	0.87628	2668.0	28.3	2694.8	14.0	2714.9	12	1.7
Spot 8	391644	495053	7498.6	4.468	7.5	1.0	7.1	2.1	0.4	1.72	0.81560	2119.6	31.0	2128.0	18.7	2136.1	21	0.8
Spot 10	821730	1038699	20259.1	2.807	7.5	0.7	7.6	1.3	0.4	1.08	0.84288	2202.3	20.2	2183.2	11.5	2165.2	12	-1.7
Spot 11	712695	900874	32526.0	1.186	7.7	0.8	6.9	1.4	0.4	1.17	0.83681	2082.4	20.8	2099.0	12.4	2115.2	13	1.5
Spot 12	242439	306452	8342.3	1.496	7.7	1.2	6.7	2.0	0.4	1.47	0.75214	2019.6	25.5	2066.3	17.3	2113.2	23	4.4
Spot 13	1393157	1761005	38743.0	2.089	5.5	0.8	13.6	1.5	0.5	1.27	0.84060	2741.8	28.3	2722.7	14.3	2708.6	13	-1.2
Spot 15	1672097	2113596	50228.3	3.093	5.0	0.8	16.1	1.6	0.6	1.32	0.84284	2911.4	30.9	2882.5	15.0	2862.4	14	-1.7
Spot 16	1173381	1483199	28606.7	2.260	5.5	0.7	13.5	1.1	0.5	0.89	0.79362	2735.3	19.8	2713.4	10.6	2697.1	11	-1.4
Spot 17	969733	1225781	19070.5	1.073	5.3	0.7	12.9	2.9	0.5	2.79	0.96669	2573.6	59.3	2669.3	27.2	2742.6	12	6.2
Spot 18	231227	292280	8742.2	2.524	7.1	1.1	7.3	1.7	0.4	1.24	0.73130	2052.7	21.9	2149.1	15.2	2242.5	20	8.5
Spot 19	880975	1113586	751003.6	1.015	5.7	0.9	12.7	1.7	0.5	1.40	0.84560	2662.2	30.6	2656.5	15.6	2652.2	15	-0.4
Spot 20	850207	1074694	35814.9	2.117	5.5	0.9	13.2	1.5	0.5	1.17	0.79205	2694.1	25.8	2694.0	14.0	2693.8	15	0.0
Spot 22	364532	460782	29215.3	0.967	7.5	1.2	7.0	1.6	0.4	1.08	0.66779	2045.2	18.8	2105.6	14.3	2165.1	21	5.5
Spot 23	692344	875150	23762.5	1.053	7.5	0.7	7.4	1.5	0.4	1.26	0.85792	2158.4	23.1	2163.5	13.1	2168.3	13	0.5
Spot 24	1274813	1611413	#####	1.911	3.6	0.6	27.8	1.2	0.7	1.08	0.86943	3469.8	29.1	3412.0	12.2	3378.3	10	-2.7
Spot 25	483708	611426	98864.6	2.219	7.5	0.8	7.2	1.2	0.4	0.83	0.71761	2085.1	14.8	2134.7	10.3	2182.9	14	4.5
Spot 27	188997	238900	1226.6	3.123	7.5	1.4	6.3	3.4	0.4	3.07	0.90532	1997.6	52.8	2014.5	29.8	2031.8	26	1.7
Spot 28	887188	1121440	30154.8	2.547	7.5	1.0	7.2	2.0	0.4	1.78	0.86954	2104.2	32.0	2136.8	18.3	2168.4	18	3.0
Spot 29	360591	455801	10708.8	1.959	7.2	0.9	7.5	1.5	0.4	1.22	0.81247	2110.6	22.0	2168.0	13.5	2222.8	15	5.0
Spot 31	1017829	1286575	13771.8	2.463	5.4	0.8	13.6	1.4	0.5	1.16	0.83417	2731.4	25.8	2723.1	13.2	2717.0	13	-0.5
Spot 32	1866766	2359664	105000.8	4.005	7.7	0.8	7.0	1.2	0.4	0.95	0.76608	2105.5	17.1	2115.2	11.1	2124.7	14	0.9
Spot 33	1034535	1307693	18718.3	1.480	7.8	0.9	6.8	1.5	0.4	1.18	0.80567	2064.3	20.8	2085.3	13.0	2106.2	15	2.0
Spot 34	1081517	1367079	52580.1	2.192	5.5	0.8	13.8	1.4	0.5	1.09	0.79727	2804.3	24.8	2738.4	12.9	2690.2	14	-4.2
Spot 35	877646	1109379	20877.0	2.738	5.5	0.9	13.0	1.5	0.5	1.21	0.81058	2649.2	26.3	2679.1	14.1	2701.7	14	1.9
Spot 36	270136	341462	8711.3	1.887	5.5	1.4	12.3	5.9	0.5	5.69	0.97075	2560.5	120.1	2627.8	55.0	2680.0	23	4.5
Spot 37	1441224	1821762	42925.7	2.022	5.5	0.9	13.5	1.5	0.5	1.20	0.79714	2738.0	26.8	2712.2	14.2	2693.0	15	-1.7
Spot 38	1899472	2401006	114434.3	2.379	5.6	1.0	13.3	1.6	0.5	1.25	0.79380	2741.0	27.8	2697.9	14.8	2665.8	16	-2.8
Spot 39	255967	323552	7776.3	1.504	6.9	1.7	8.1	2.3	0.4	1.56	0.67055	2180.3	28.9	2241.1	21.0	2297.2	30	5.1
Spot 40	817913	1033874	31830.8	1.463	7.7	1.0	7.2	1.9	0.4	1.60	0.85371	2142.6	29.1	2131.1	16.7	2119.9	17	-1.1
Spot 41	1594173	2015097	139053.8	2.065	5.7	0.8	12.9	1.3	0.5	1.05	0.77733	2725.5	23.3	2674.4	12.7	2636.0	14	-3.4
Spot 42	667479	843719	82919.1	1.029	7.7	0.9	7.2	1.5	0.4	1.23	0.81105	2141.0	22.5	2132.5	13.6	2124.4	16	-0.8
Spot 43	1032122	1304643	32431.9	1.766	8.7	1.0	5.5	1.7	0.3	1.36	0.80651	1909.9	22.4	1901.4	14.4	1892.1	18	-0.9
Spot 44	733745	927482	11309.9	1.401	8.2	1.0	6.1	1.5	0.4	1.15	0.75291	1966.3	19.5	1984.0	13.3	2002.5	18	1.8

Spot 45	546077	690262	13167.7	2.761	6.9	1.0	8.6	1.8	0.4	1.45	0.81993	2272.9	27.8	2293.1	16.1	2311.1	17	1.7
Spot 46	1774103	2242535	87070.6	1.696	4.1	0.6	22.2	1.5	0.7	1.40	0.90990	3242.7	35.8	3193.8	15.0	3163.3	10	-2.5
Spot 47	804788	1017283	148967.1	5.413	7.1	0.7	8.4	1.5	0.4	1.28	0.87520	2304.7	24.8	2279.0	13.3	2256.0	12	-2.2
Spot 48	655625	828736	39025.1	2.166	7.7	0.9	7.0	1.8	0.4	1.53	0.85944	2104.7	27.6	2107.8	15.9	2110.8	16	0.3
Spot 49	119867	151516	6402.5	0.713	7.1	1.4	7.6	2.9	0.4	2.42	0.83784	2130.4	44.0	2189.7	26.0	2245.6	27	5.1
Spot 50	278225	351687	21585.7	2.547	4.7	1.1	16.7	2.0	0.6	1.73	0.84849	2860.4	39.9	2916.0	19.5	2954.7	17	3.2
Spot 51	801487	1013111	26079.9	1.098	7.5	0.8	7.3	1.4	0.4	1.17	0.83418	2132.6	21.3	2148.0	12.6	2162.7	14	1.4
Spot 52	877876	1109669	88757.4	1.052	8.3	0.9	6.2	1.3	0.4	1.03	0.76749	2009.2	17.7	2000.4	11.7	1991.4	15	-0.9
Spot 53	711367	899195	56919.7	2.397	7.4	1.1	7.5	1.8	0.4	1.49	0.81708	2151.3	27.2	2171.3	16.3	2190.1	18	1.8
Spot 54	687498	869024	18529.7	2.691	7.6	0.7	7.2	1.3	0.4	1.08	0.83789	2129.5	19.6	2138.8	11.5	2147.7	12	0.8
Spot 55	903645	1142242	39805.9	2.321	5.6	0.9	13.6	1.5	0.5	1.20	0.81428	2788.2	27.2	2719.3	14.0	2668.5	14	-4.5
Spot 56	1301234	1644810	189936.0	1.246	8.6	0.9	5.5	1.6	0.3	1.40	0.84854	1878.7	22.8	1901.0	14.2	1925.5	16	2.4
Spot 57	895315	1131712	50831.2	2.060	8.2	1.1	6.2	1.7	0.4	1.26	0.75295	2001.9	21.6	2003.5	14.6	2005.1	20	0.2
Spot 58	179689	227133	5721.4	1.178	7.5	1.8	7.4	2.6	0.4	1.81	0.70862	2204.1	33.8	2165.3	22.9	2128.6	32	-3.5
Spot 59	754409	953602	63685.8	1.055	5.0	0.8	16.1	1.3	0.6	1.08	0.81502	2932.1	25.6	2879.9	12.7	2843.6	13	-3.1
Spot 60	353193	446450	18423.6	1.654	7.1	1.5	7.6	2.3	0.4	1.82	0.78036	2108.0	32.8	2181.4	20.9	2251.0	25	6.4
Spot 61	964469	1219126	729974.6	2.709	7.6	1.0	7.4	1.5	0.4	1.16	0.76079	2163.7	21.4	2158.2	13.7	2152.9	17	-0.5
Spot 62	886175	1120159	48205.7	2.595	5.5	0.6	13.5	1.5	0.5	1.31	0.90228	2756.1	29.5	2716.2	13.8	2686.6	10	-2.6
Spot 63	654352	827127	8102.3	0.975	5.4	0.9	13.5	1.4	0.5	1.13	0.79608	2723.7	25.2	2713.2	13.5	2705.4	14	-0.7
Spot 64	1061372	1341615	23953.0	2.042	5.5	0.7	13.9	1.5	0.5	1.29	0.87058	2804.7	29.3	2745.0	14.0	2701.4	12	-3.8
Spot 65	958715	1211853	10253.7	1.467	8.9	1.4	5.4	2.4	0.3	1.95	0.81109	1924.3	32.4	1889.9	20.6	1852.4	25	-3.9
Spot 66	275492	348232	27483.7	2.225	6.3	1.3	10.2	2.1	0.5	1.74	0.80759	2452.9	35.4	2453.6	19.9	2454.2	21	0.1
Spot 68	1548037	1956779	36367.6	1.234	7.4	0.9	7.7	1.8	0.4	1.62	0.87913	2205.5	30.2	2195.8	16.5	2186.6	15	-0.9
Spot 69	179095	226384	5020.6	1.036	5.4	1.4	12.9	2.2	0.5	1.73	0.77149	2623.2	37.2	2674.9	21.1	2714.2	23	3.4
Spot 70	695166	878717	32692.7	1.354	7.3	0.9	7.8	1.5	0.4	1.24	0.81664	2206.0	23.3	2207.9	13.7	2209.7	15	0.2
Spot 71	413613	522823	10025.0	2.920	8.7	1.2	5.4	1.6	0.3	1.09	0.67319	1880.9	17.8	1889.5	13.9	1899.0	22	1.0
Spot 72	1440298	1820593	35220.2	1.953	5.6	0.9	13.0	1.5	0.5	1.24	0.80439	2712.3	27.4	2678.3	14.5	2652.8	15	-2.2
Spot 73	380600	481093	11503.9	2.564	7.4	0.9	7.3	1.7	0.4	1.38	0.81734	2127.5	25.0	2150.2	15.1	2172.0	17	2.0
Spot 74	588792	744256	40951.9	0.916	5.4	0.8	13.6	1.6	0.5	1.35	0.85996	2711.8	29.9	2720.2	14.9	2726.5	13	0.5
Spot 75	851314	1076093	113508.7	3.865	6.0	0.7	11.8	1.4	0.5	1.14	0.83603	2626.3	24.6	2591.4	12.8	2564.3	13	-2.4
Spot 76	1473858	1863013	58388.7	5.274	5.2	0.8	15.2	1.4	0.6	1.17	0.81678	2897.8	27.3	2829.5	13.7	2781.2	14	-4.2
Spot 77	653579	826149	12687.0	2.239	7.5	1.1	7.4	1.8	0.4	1.42	0.78045	2170.0	26.1	2161.3	16.2	2153.1	20	-0.8
Spot 78	588716	744160	7993.6	4.399	7.7	0.9	6.9	2.0	0.4	1.74	0.88950	2100.7	31.2	2099.2	17.4	2097.7	16	-0.1
Spot 79	1057614	1336865	137337.4	3.409	5.6	1.1	13.2	1.7	0.5	1.37	0.79019	2758.7	30.8	2697.2	16.4	2651.4	18	-4.0
Spot 80	292304	369484	15834.6	2.499	7.3	1.2	7.5	1.9	0.4	1.52	0.79621	2134.9	27.7	2173.4	17.2	2210.0	20	3.4
Spot 81	450508	569460	17111.8	2.566	7.7	0.9	7.1	1.7	0.4	1.39	0.84123	2133.7	25.3	2122.0	14.7	2110.8	16	-1.1
Spot 82	534265	675332	22187.6	2.239	7.8	0.9	6.9	1.7	0.4	1.52	0.86992	2103.1	27.3	2102.3	15.5	2101.5	15	-0.1
Spot 83	747886	945357	22920.2	1.832	7.5	0.9	7.2	2.5	0.4	2.32	0.93639	2114.1	41.8	2137.1	22.1	2159.2	15	2.1
Spot 84	431610	545572	23520.3	2.254	7.2	0.7	7.8	1.4	0.4	1.20	0.86954	2189.7	22.2	2210.1	12.4	2229.1	12	1.8
Spot 85	1305318	1649973	18819.7	1.299	8.7	1.0	5.4	2.5	0.3	2.26	0.91311	1860.2	36.5	1878.3	21.2	1898.5	18	2.0
Spot 86	579070	731967	23349.4	1.436	7.4	1.0	7.7	1.8	0.4	1.53	0.84373	2217.5	28.6	2200.4	16.3	2184.5	17	-1.5
Spot 87	340984	431017	12155.5	1.875	5.3	1.2	12.8	2.8	0.5	2.48	0.89210	2557.4	52.4	2665.8	26.2	2749.1	21	7.0
Spot 88	437109	552522	110469.0	2.741	7.3	0.8	7.1	2.8	0.4	2.70	0.95761	2040.2	47.2	2129.8	25.1	2217.4	14	8.0

Spot 89	1282208	1620761	32204.5	1.568	7.5	1.1	7.4	1.7	0.4	1.27	0.76484	2148.9	23.2	2156.2	14.9	2163.0	19	0.7
Spot 90	706250	892728	271135.4	2.098	7.7	0.8	7.0	1.3	0.4	1.05	0.79587	2119.0	18.9	2114.5	11.7	2110.2	14	-0.4
Spot 91	762746	964140	21546.8	2.076	5.5	0.9	13.2	1.9	0.5	1.65	0.87813	2688.8	36.3	2695.9	17.8	2701.3	15	0.5
Spot 92	625486	790639	13674.7	1.951	7.5	1.0	7.1	1.9	0.4	1.65	0.86075	2101.6	29.6	2126.5	17.0	2150.7	17	2.3
Spot 93	634791	802401	#####	1.488	8.2	1.0	6.2	1.6	0.4	1.33	0.80520	2003.8	22.9	2009.6	14.4	2015.5	17	0.6
Spot 94	683649	864158	25366.2	1.425	7.0	0.7	8.4	1.9	0.4	1.77	0.92701	2257.1	33.7	2273.4	17.3	2288.0	12	1.4
Spot 95	1228215	1552512	17396.0	2.061	5.5	0.7	13.4	1.7	0.5	1.53	0.91650	2727.4	34.0	2709.3	15.8	2695.9	11	-1.2
Spot 96	498367	629956	23188.2	2.968	7.9	3.3	6.8	5.1	0.4	3.93	0.76605	2098.1	70.5	2084.1	45.5	2070.3	58	-1.3
Spot 97	804467	1016878	9474.5	1.378	8.6	0.8	5.6	1.5	0.4	1.24	0.83211	1941.5	20.7	1923.1	12.8	1903.3	15	-2.0
Spot 98	586107	740862	56818.3	1.459	7.5	0.9	7.5	1.6	0.4	1.32	0.83665	2166.8	24.3	2169.1	14.1	2171.3	15	0.2
Spot 99	231873	293096	4334.4	1.550	6.7	1.1	8.7	1.6	0.4	1.13	0.70598	2275.4	21.7	2302.2	14.6	2326.1	19	2.2
Spot 100	801669	1013340	13649.6	2.516	5.5	0.8	13.1	1.3	0.5	0.98	0.76527	2687.5	21.6	2684.8	12.1	2682.8	14	-0.2
Spot 101	963628	1218064	20187.0	2.257	6.9	1.0	7.3	4.0	0.4	3.87	0.96706	1988.2	66.1	2145.6	35.7	2299.9	17	13.6
Spot 102	789292	997696	19898.0	1.220	7.5	0.8	7.3	1.5	0.4	1.28	0.83550	2134.5	23.2	2144.5	13.7	2154.0	15	0.9
Spot 103	960121	1213630	919824.4	2.909	7.4	0.8	7.7	1.4	0.4	1.10	0.79178	2207.6	20.5	2194.4	12.5	2182.0	15	-1.2
Spot 104	1707009	2157725	50976.4	1.251	4.7	0.8	16.2	1.6	0.5	1.42	0.88189	2782.8	32.0	2890.7	15.4	2966.8	12	6.2
Spot 105	907020	1146508	44527.7	3.101	7.5	0.8	7.3	1.2	0.4	0.87	0.72457	2135.4	15.7	2147.5	10.7	2159.1	14	1.1
Spot 106	711230	899022	36558.4	3.288	7.4	0.8	7.3	1.5	0.4	1.21	0.82412	2103.1	21.8	2145.9	13.1	2187.1	15	3.8
Spot 107	1210137	1529660	67672.6	2.031	5.5	0.7	13.3	1.6	0.5	1.39	0.88036	2711.7	30.8	2698.0	14.9	2687.8	12	-0.9
Spot 108	383217	484401	18597.5	2.827	7.5	1.0	7.0	1.7	0.4	1.41	0.80801	2072.1	25.0	2117.0	15.5	2160.8	18	4.1
Spot 109	766997	969514	42765.1	3.703	7.6	0.8	7.1	1.8	0.4	1.60	0.89904	2101.2	28.8	2126.2	15.9	2150.4	14	2.3
Spot 110	535305	676647	8292.9	2.039	7.4	0.8	7.1	1.5	0.4	1.22	0.80066	2066.7	21.5	2119.2	13.5	2170.6	16	4.8
Spot 111	486403	614833	143543.0	2.845	7.6	0.9	7.1	1.8	0.4	1.51	0.85104	2098.3	27.1	2119.2	15.8	2139.5	16	1.9
Spot 112	1435509	1814539	36731.7	2.097	5.5	0.8	13.2	1.7	0.5	1.55	0.88922	2675.7	33.9	2691.6	16.4	2703.5	13	1.0
Spot 113	864345	1092566	78526.7	1.950	5.6	3.2	13.2	4.7	0.5	3.43	0.72754	2745.5	76.7	2693.6	44.5	2654.8	54	-3.4
Spot 114	1411624	1784348	39759.0	1.488	7.7	0.7	6.9	1.4	0.4	1.16	0.84744	2075.2	20.5	2094.9	12.1	2114.3	13	1.9
Spot 115	373105	471619	4683.1	2.926	7.7	1.4	5.4	4.0	0.3	3.76	0.93452	1721.9	56.8	1892.7	34.5	2085.6	25	17.4
Spot 116	444840	562295	8951.5	0.929	7.7	0.9	7.0	1.9	0.4	1.65	0.86742	2131.6	30.0	2116.2	17.0	2101.3	17	-1.4
Spot 117	612417	774119	37655.7	2.412	5.1	0.9	14.2	1.3	0.5	0.87	0.69270	2702.5	19.3	2760.6	11.9	2803.4	15	3.6
Spot 118	1437381	1816905	40991.7	1.934	5.5	1.1	13.5	1.7	0.5	1.35	0.78905	2724.1	30.0	2711.8	16.2	2702.7	17	-0.8
Spot 119	1869836	2363545	106054.5	4.351	7.6	0.9	7.2	1.6	0.4	1.35	0.83835	2121.4	24.4	2132.3	14.4	2142.8	15	1.0
Spot 120	532505	673107	31407.9	1.108	8.2	1.3	6.0	1.9	0.4	1.40	0.73874	1936.2	23.4	1969.6	16.5	2004.9	23	3.4
Spot 121	760752	961620	16123.7	2.405	7.5	0.8	7.5	1.3	0.4	1.06	0.79014	2180.1	19.7	2175.5	12.1	2171.1	14	-0.4
Spot 122	366394	463136	29017.4	0.743	7.2	0.9	7.7	1.7	0.4	1.42	0.83371	2158.0	26.1	2196.4	15.3	2232.4	16	3.3
Spot 123	1049805	1326994	48119.8	2.596	5.6	0.8	13.2	1.5	0.5	1.29	0.86324	2711.8	28.6	2692.6	14.1	2678.2	12	-1.3
Spot 125	834429	1054751	#####	1.150	7.6	1.1	7.1	1.6	0.4	1.17	0.72876	2113.2	21.1	2129.8	14.3	2145.8	19	1.5
Spot 126	356705	450889	9139.9	1.236	5.1	0.8	14.2	1.6	0.5	1.33	0.85975	2709.6	29.5	2764.0	14.7	2804.0	13	3.4
Spot 127	737362	932055	18659.7	0.807	7.4	0.8	7.4	1.4	0.4	1.15	0.80406	2126.7	20.8	2158.3	12.8	2188.5	15	2.8
Spot 128	879316	1111490	17541.1	1.656	7.5	0.7	7.6	1.3	0.4	1.04	0.81581	2204.1	19.5	2184.6	11.5	2166.2	13	-1.7
Spot 129	375863	475106	8203.8	2.343	7.2	1.1	7.6	1.9	0.4	1.61	0.82598	2144.4	29.3	2184.1	17.4	2221.5	19	3.5
Spot 130	1116189	1410906	35676.0	2.509	7.7	0.9	7.0	1.5	0.4	1.24	0.81060	2092.8	22.2	2112.8	13.6	2132.4	16	1.9
Spot 131	842700	1065206	96981.8	1.155	7.3	0.7	7.6	2.2	0.4	2.06	0.95369	2139.5	37.5	2187.2	19.4	2232.2	11	4.2
Spot 132	1261897	1595086	33768.1	2.492	5.4	0.7	12.6	2.3	0.5	2.20	0.94874	2554.4	46.5	2647.9	21.9	2720.0	12	6.1

Spot 133	455810	576162	17726.3	1.303	7.8	1.0	6.6	1.9	0.4	1.69	0.86625	2021.5	29.2	2060.2	17.2	2099.2	17	3.7
Spot 134	790310	998982	122849.2	2.348	5.5	0.9	13.3	1.7	0.5	1.45	0.84851	2695.5	32.0	2699.1	16.1	2701.8	15	0.2
Spot 135	890322	1125401	36238.3	0.871	8.0	0.9	6.5	1.6	0.4	1.32	0.83068	2025.0	22.9	2041.7	14.0	2058.6	16	1.6
Spot 136	429235	542570	39790.8	1.083	7.6	1.0	6.7	2.7	0.4	2.55	0.93411	2012.7	44.0	2078.0	24.1	2143.3	17	6.1
Spot 137	750940	949217	18598.8	2.039	7.6	0.7	7.1	1.3	0.4	1.16	0.86129	2113.6	20.9	2128.3	12.0	2142.5	12	1.3
Spot 138	416813	526868	12846.6	1.688	7.4	1.4	6.8	1.8	0.4	1.20	0.65706	1999.1	20.6	2087.7	16.1	2176.2	24	8.1
Spot 139	637237	805492	30853.7	2.685	7.5	1.1	7.3	1.7	0.4	1.29	0.75746	2129.1	23.5	2148.1	15.3	2166.3	19	1.7
Spot 140	841757	1064014	18241.4	2.108	7.1	0.9	8.0	2.3	0.4	2.11	0.91596	2199.1	39.3	2230.1	20.8	2258.7	16	2.6
Spot 141	1146672	1449437	36655.9	2.451	7.8	0.8	6.8	1.4	0.4	1.11	0.80629	2067.5	19.6	2086.0	12.2	2104.3	14	1.7
Spot 142	275626	348403	8240.5	1.609	8.2	1.0	6.0	1.8	0.4	1.44	0.80874	1950.0	24.2	1968.6	15.5	1988.2	19	1.9
Spot 143	965372	1220267	27812.0	1.998	5.5	0.8	13.0	1.6	0.5	1.37	0.85130	2651.8	29.7	2680.9	15.2	2702.9	14	1.9
Spot 144	534323	675405	6321.5	2.175	7.6	0.8	7.4	1.6	0.4	1.35	0.86005	2202.6	25.2	2164.8	14.1	2129.1	14	-3.5
Spot 145	936701	1184026	118340.5	2.217	5.5	0.7	13.1	1.5	0.5	1.32	0.88236	2657.7	28.8	2687.8	14.2	2710.5	12	1.9
Spot 146	1061385	1341632	29613.2	1.027	6.4	0.8	9.9	1.5	0.5	1.31	0.84991	2397.7	26.3	2429.2	14.3	2455.6	14	2.4
Spot 147	558988	706583	19614.5	2.859	7.3	0.6	7.9	1.7	0.4	1.55	0.91918	2225.9	29.1	2216.2	15.2	2207.1	12	-0.9
Spot 148	817325	1033130	11926.8	2.239	8.7	0.9	5.4	1.8	0.3	1.49	0.85096	1885.5	24.4	1892.7	15.0	1900.7	17	0.8
Spot 149	1561772	1974140	69614.2	1.996	5.5	1.0	13.3	1.6	0.5	1.22	0.77453	2719.3	27.0	2700.0	14.8	2685.7	16	-1.3
Spot 150	889487	1124347	29097.8	0.710	8.0	1.0	6.5	1.5	0.4	1.13	0.76469	2049.2	19.9	2051.1	13.1	2052.9	17	0.2
Spot 151	1118113	1413338	23001.8	2.036	8.5	0.8	5.7	1.6	0.3	1.40	0.86386	1922.0	23.2	1937.1	14.0	1953.4	15	1.6
Spot 152	220432	278634	3179.9	2.088	7.7	1.1	6.6	2.4	0.4	2.10	0.88884	2028.9	36.6	2055.9	20.9	2083.0	19	2.6
Spot 153	252992	319792	6187.6	0.988	7.4	0.8	7.0	1.8	0.4	1.38	0.78707	2054.8	24.3	2112.6	15.6	2169.3	19	5.3
Spot 154	409841	518055	8350.3	1.541	8.7	1.0	5.5	1.8	0.3	1.45	0.81235	1923.1	24.1	1904.4	15.3	1884.1	19	-2.1
Spot 155	1058551	1338049	33493.8	1.099	7.7	0.8	7.3	1.7	0.4	1.55	0.89159	2172.8	28.6	2149.3	15.5	2127.0	14	-2.2
Spot 157	145212	183554	11849.5	0.917	5.5	1.1	12.8	1.9	0.5	1.56	0.82241	2620.2	33.6	2667.1	17.9	2702.8	18	3.1
Spot 158	696837	880828	547592.2	0.811	7.4	0.9	7.5	1.4	0.4	1.09	0.77086	2149.1	20.0	2177.9	12.7	2205.1	16	2.5
Spot 159	1179390	1490794	279697.2	2.163	5.5	0.5	13.5	1.3	0.5	1.21	0.91155	2732.5	27.0	2716.6	12.6	2704.7	9	-1.0
Spot 160	803006	1015031	17053.2	1.495	7.3	1.7	7.4	2.0	0.4	0.99	0.49488	2105.3	17.8	2164.0	17.9	2220.1	30	5.2
Spot 161	1379166	1743319	28379.2	2.004	5.4	0.9	13.6	1.6	0.5	1.35	0.84316	2742.0	30.2	2725.6	15.2	2713.5	14	-1.1
Spot 162	445548	563189	11994.2	1.910	7.3	0.9	7.7	1.5	0.4	1.23	0.80083	2191.7	22.9	2194.2	13.8	2196.5	16	0.2
Spot 163	713502	901894	19493.1	1.815	7.3	0.7	7.6	1.4	0.4	1.16	0.84509	2165.8	21.3	2189.8	12.3	2212.3	13	2.1
Spot 164	1796574	2270940	#####	1.958	7.8	0.9	6.9	1.5	0.4	1.13	0.77105	2071.4	20.0	2092.4	13.0	2113.1	16	2.0
Spot 165	575546	727513	562006.1	2.779	7.6	1.0	7.0	1.7	0.4	1.35	0.80920	2073.4	23.9	2113.6	14.8	2153.0	17	3.7
Spot 166	949061	1199650	32603.5	1.415	8.0	0.8	6.3	3.1	0.4	2.96	0.96544	1970.3	50.2	2014.8	26.9	2060.7	14	4.4
Spot 167	934175	1180833	51416.2	1.859	8.5	1.0	5.6	1.4	0.3	0.93	0.67791	1889.4	15.3	1914.1	11.9	1940.9	18	2.7
Spot 168	280633	354731	3357.1	2.908	7.3	1.1	7.1	2.0	0.4	1.73	0.85032	2088.4	30.9	2124.2	18.1	2159.0	19	3.3
Spot 169	607959	768484	315469.8	0.684	8.0	1.0	6.1	2.6	0.3	2.36	0.91852	1917.1	39.2	1990.4	22.4	2067.4	18	7.3
Spot 171	353574	446931	190515.8	1.952	7.8	0.9	6.9	1.6	0.4	1.29	0.82730	2077.0	23.0	2092.9	13.9	2108.5	15	1.5
Spot 172	992304	1254311	14389.8	2.021	7.5	0.8	7.3	1.5	0.4	1.34	0.86364	2140.5	24.3	2147.6	13.8	2154.4	14	0.6
Spot 174	749269	947105	31537.7	1.004	7.6	1.3	7.3	3.8	0.4	3.60	0.94411	2162.6	66.2	2148.6	34.1	2135.3	22	-1.3
Spot 175	820591	1037259	62586.9	0.995	5.2	0.6	15.4	1.2	0.6	1.00	0.84593	2905.9	23.4	2841.9	11.3	2796.9	10	-3.9
Spot 176	970303	1226501	27370.0	2.332	5.5	0.7	13.3	1.3	0.5	1.05	0.82169	2718.9	23.3	2698.6	12.1	2683.3	12	-1.3
Spot 177	704060	889959	17456.2	0.757	8.0	1.0	6.2	1.6	0.4	1.25	0.79274	1965.1	21.2	2011.2	13.8	2058.9	17	4.6
Spot 178	784871	992107	28781.2	2.043	7.6	1.0	7.1	1.6	0.4	1.33	0.80987	2099.8	23.8	2124.6	14.6	2148.7	17	2.3

Spot 179	531456	671780	19113.5	0.967	7.4	0.9	7.6	1.4	0.4	1.11	0.78289	2180.2	20.5	2183.7	12.7	2187.1	15	0.3
Spot 180	734655	928632	50250.0	1.287	7.3	0.8	7.8	1.6	0.4	1.36	0.86489	2212.7	25.4	2211.6	14.1	2210.6	14	-0.1
Spot 182	1734446	2192407	236040.9	2.001	4.9	0.8	16.4	1.5	0.6	1.30	0.86264	2946.3	30.6	2901.3	14.4	2870.3	12	-2.6
Spot 183	1011926	1279114	11247.2	2.066	7.5	0.8	7.5	1.5	0.4	1.31	0.85632	2196.8	24.4	2174.0	13.7	2152.6	14	-2.1
Spot 184	619619	783222	13588.9	2.004	8.6	0.9	5.5	1.7	0.3	1.39	0.82545	1894.9	22.7	1899.8	14.4	1905.0	17	0.5
Spot 185	1199193	1515826	76764.2	1.335	8.0	0.8	6.4	2.0	0.4	1.79	0.92000	2015.3	31.1	2034.7	17.1	2054.3	14	1.9
Spot 187	366803	463654	42160.2	1.958	7.4	0.9	7.3	1.7	0.4	1.46	0.84475	2100.6	26.3	2149.1	15.5	2195.8	16	4.3
Spot 188	756197	955862	17448.3	2.422	7.1	0.9	7.9	1.8	0.4	1.55	0.86971	2183.1	28.7	2217.9	16.1	2250.2	15	3.0
Spot 189	797634	1008240	16007.5	1.491	8.1	1.0	6.3	1.9	0.4	1.61	0.85262	2016.3	27.9	2019.6	16.6	2022.9	17	0.3
Spot 190	1073750	1357262	33050.9	1.952	6.1	1.2	10.9	1.9	0.5	1.51	0.78053	2528.5	31.6	2517.1	18.0	2508.0	20	-0.8
Spot 191	570065	720585	18672.8	1.701	8.4	0.9	5.7	1.6	0.3	1.25	0.79805	1887.6	20.5	1924.6	13.5	1964.7	17	3.9
Spot 192	949562	1200283	45068.7	1.789	7.6	0.8	7.2	1.5	0.4	1.30	0.84516	2128.7	23.6	2131.2	13.7	2133.5	14	0.2
Spot 193	523597	661847	30741.4	2.210	7.7	0.9	6.7	2.3	0.4	2.12	0.91897	2026.3	36.8	2071.8	20.3	2117.3	16	4.3
Spot 194	874057	1104842	14931.7	2.217	5.5	0.7	13.0	1.6	0.5	1.42	0.89045	2664.7	31.1	2679.1	15.1	2690.0	12	0.9
Spot 195	722554	913336	26648.3	1.206	6.7	0.9	8.6	1.2	0.4	0.89	0.71941	2250.6	16.9	2301.5	11.2	2346.9	15	4.1
Spot 196	683536	864016	15706.8	1.282	7.7	0.8	6.9	1.6	0.4	1.31	0.84703	2072.7	23.3	2096.1	13.8	2119.1	14	2.2
Spot 197	2241048	2832771	185836.9	0.724	7.8	0.9	6.7	1.4	0.4	1.08	0.78267	2058.4	19.0	2075.9	12.2	2093.3	15	1.7
Spot 199	917683	1159987	36527.2	2.043	5.5	0.8	13.4	1.3	0.5	1.08	0.81585	2729.6	24.1	2710.7	12.6	2696.5	13	-1.2
Spot 200	867314	1096318	37013.6	2.518	5.6	0.9	13.2	1.6	0.5	1.28	0.80720	2724.2	28.5	2691.8	15.0	2667.6	16	-2.1
Spot 201	661151	835720	9994.6	1.860	8.6	0.8	5.0	1.3	0.3	0.98	0.75454	1743.5	14.9	1823.9	10.9	1916.9	15	9.0
Spot 202	1300900	1644388	34810.4	1.340	7.4	0.8	7.9	1.9	0.4	1.67	0.89559	2234.3	31.6	2215.4	16.8	2198.0	14	-1.6
Spot 203	755481	954958	89943.0	2.282	5.5	0.9	13.1	1.4	0.5	1.03	0.74319	2688.9	22.6	2688.5	13.1	2688.3	15	0.0
Spot 204	366952	463841	13052.7	2.248	7.2	1.3	7.5	1.8	0.4	1.24	0.68854	2112.2	22.4	2176.1	16.2	2236.9	23	5.6
Spot 205	1499302	1895176	106917.8	2.798	5.7	1.1	12.2	1.8	0.5	1.42	0.80333	2609.1	30.6	2623.2	16.6	2634.2	18	1.0
Spot 206	1054741	1333233	60985.5	0.907	7.5	1.0	7.2	1.8	0.4	1.54	0.84152	2104.6	27.7	2133.5	16.3	2161.4	17	2.6
Spot 207	603976	763449	29748.5	1.831	4.7	0.8	17.6	1.5	0.6	1.22	0.82309	2975.4	29.1	2965.9	14.2	2959.4	14	-0.5
Spot 208	417212	527372	12467.7	2.491	6.0	0.9	10.5	1.6	0.5	1.32	0.83920	2422.0	26.6	2483.1	14.5	2533.5	14	4.4
Spot 209	365905	462518	15342.2	8.740	7.5	1.0	7.2	1.8	0.4	1.52	0.83102	2101.9	27.3	2134.5	16.3	2166.0	18	3.0
Spot 210	917032	1159164	15787.2	2.839	7.6	1.3	7.3	2.3	0.4	1.84	0.81659	2165.0	33.9	2144.6	20.1	2125.1	23	-1.9
Spot 212	516794	653247	39678.5	1.089	4.1	0.9	21.6	1.6	0.6	1.37	0.84449	3138.2	34.1	3164.8	15.8	3181.7	14	1.4
Spot 213	598499	756527	14914.9	1.739	8.6	1.0	5.6	1.6	0.3	1.24	0.77005	1907.1	20.5	1910.8	13.9	1914.8	18	0.4
Spot 214	2642863	3340681	55976.5	2.217	4.8	0.8	17.2	1.8	0.6	1.54	0.87784	3006.2	36.9	2945.2	16.8	2903.7	14	-3.5
Spot 215	668415	844903	35387.4	1.155	7.6	1.3	7.3	1.9	0.4	1.37	0.72123	2168.6	25.2	2148.8	17.0	2129.9	23	-1.8
Spot 216	594625	751629	16727.3	2.393	7.8	0.9	6.7	1.7	0.4	1.42	0.84179	2066.9	25.1	2077.0	14.9	2087.1	16	1.0
Spot 217	716150	905242	231110.9	1.213	5.0	0.9	15.8	1.4	0.6	1.04	0.76824	2869.4	24.1	2865.6	12.9	2862.9	14	-0.2
Spot 218	1079410	1364415	39808.4	1.215	7.8	1.0	7.2	1.9	0.4	1.57	0.83382	2177.0	29.0	2138.5	16.8	2101.6	18	-3.6
Spot 219	624381	789242	151936.0	1.931	7.3	0.7	7.6	1.3	0.4	1.07	0.83244	2167.5	19.6	2185.9	11.5	2203.3	12	1.6
Spot 220	670261	847236	7917.4	1.746	8.6	0.9	5.5	1.8	0.3	1.54	0.87414	1905.9	25.4	1897.6	15.1	1888.6	15	-0.9
Spot 221	522680	660688	25327.5	1.726	7.6	1.0	7.1	1.4	0.4	1.03	0.72720	2102.5	18.5	2120.6	12.6	2138.3	17	1.7
Spot 222	776128	981056	27927.3	2.064	7.7	0.9	6.9	1.6	0.4	1.26	0.80088	2094.5	22.6	2102.7	14.0	2110.8	17	0.8
Spot 223	1407582	1779238	20641.3	2.100	5.4	1.1	13.3	1.6	0.5	1.15	0.73612	2703.4	25.5	2701.6	14.8	2700.3	18	-0.1
Spot 224	874931	1105946	53366.5	2.273	5.4	0.7	13.7	1.4	0.5	1.22	0.87701	2750.1	27.3	2731.8	13.1	2718.3	11	-1.2
Spot 225	699892	884691	26598.5	2.407	3.4	0.7	29.3	1.6	0.7	1.41	0.88982	3462.8	37.9	3464.1	15.6	3464.8	11	0.1

Spot 226	776031	980933	56545.4	2.162	5.4	0.7	13.3	1.5	0.5	1.33	0.87924	2689.1	29.3	2698.4	14.3	2705.4	12	0.6
Spot 227	998793	1262512	42350.5	1.181	7.7	0.8	7.1	1.5	0.4	1.21	0.82727	2127.2	22.0	2124.6	13.1	2122.0	14	-0.2
Spot 228	404149	510860	12049.2	1.954	8.7	0.8	5.3	1.6	0.3	1.40	0.87128	1853.4	22.5	1867.8	13.7	1883.9	14	1.6
Spot 229	760824	961711	24527.1	2.151	5.5	0.8	13.2	1.6	0.5	1.42	0.87332	2697.7	31.3	2692.8	15.4	2689.1	13	-0.3
Spot 230	1203719	1521548	37605.2	5.266	7.5	1.1	7.3	1.9	0.4	1.57	0.82204	2129.2	28.5	2146.7	17.1	2163.5	19	1.6
Spot 231	847812	1071667	31116.3	2.622	7.4	1.0	7.6	1.6	0.4	1.31	0.80857	2178.5	24.2	2181.2	14.5	2183.8	17	0.2
Spot 232	873058	1103579	25600.4	2.458	3.9	0.7	23.1	1.3	0.7	1.16	0.86776	3240.1	29.4	3231.3	13.0	3225.9	10	-0.4
Spot 233	581691	735279	70441.3	1.505	5.5	0.7	13.6	2.0	0.5	1.93	0.94697	2747.9	43.1	2719.4	19.2	2698.2	11	-1.8
Spot 234	695712	879406	46616.3	1.625	5.3	1.1	13.6	1.9	0.5	1.53	0.80523	2701.9	33.7	2720.0	17.9	2733.4	18	1.2
Spot 235	1408627	1780559	555954.3	1.134	3.9	1.0	23.6	1.8	0.7	1.56	0.85107	3269.3	39.9	3250.8	17.8	3239.3	15	-0.9
Spot 237	243443	307721	1722.0	0.962	8.3	1.4	5.1	2.2	0.3	1.68	0.76783	1799.5	26.4	1828.1	18.6	1860.8	25	3.3
Spot 238	835642	1056284	28409.1	1.469	4.7	0.8	18.0	1.7	0.6	1.48	0.88343	3048.4	36.0	2988.2	16.1	2948.0	13	-3.4
Spot 239	199453	252116	3342.6	1.616	7.2	1.4	7.4	2.4	0.4	1.93	0.79990	2159.9	35.4	2166.1	21.6	2171.9	25	0.6
Spot 240	1257271	1589239	363918.0	2.149	5.4	0.7	13.5	1.2	0.5	1.02	0.82832	2736.0	22.7	2716.6	11.6	2702.3	11	-1.2
Spot 241	571543	722453	20229.6	2.903	7.3	0.9	7.6	1.4	0.4	1.12	0.78675	2175.3	20.6	2187.2	12.7	2198.3	15	1.0
Spot 242	1604380	2027999	246099.3	2.136	8.0	0.8	6.9	1.3	0.4	1.04	0.79182	2138.7	18.9	2095.8	11.7	2054.0	14	-4.1
Spot 243	1150263	1453977	32260.9	1.999	7.4	0.9	8.0	1.5	0.4	1.24	0.81977	2278.5	23.8	2227.1	13.6	2180.2	15	-4.5
Spot 244	1693447	2140583	39342.5	2.223	5.4	1.1	13.5	2.3	0.5	2.09	0.88900	2727.5	46.4	2713.8	22.2	2703.5	18	-0.9
Spot 245	1223284	1546278	34562.0	1.086	7.4	0.7	7.6	1.5	0.4	1.34	0.87703	2209.3	25.1	2189.0	13.7	2170.1	13	-1.8
Spot 247	513814	649481	9013.3	2.677	7.0	1.1	8.6	1.6	0.4	1.07	0.69022	2329.1	21.0	2297.7	14.1	2270.0	19	-2.6
Spot 249	597461	755213	22528.6	1.800	7.7	1.4	7.1	2.1	0.4	1.62	0.76158	2154.8	29.6	2128.9	18.9	2104.0	24	-2.4
Spot 250	1089542	1377223	91799.9	2.118	5.8	0.6	12.2	1.5	0.5	1.38	0.90495	2640.6	30.0	2620.3	14.3	2604.7	11	-1.4
Spot 251	501558	633988	8664.5	3.406	7.5	0.9	6.6	3.0	0.4	2.83	0.95602	1988.7	48.5	2057.9	26.1	2127.8	15	6.5
Spot 253	1443281	1824363	87089.4	1.656	5.5	0.6	13.4	1.3	0.5	1.17	0.87740	2726.6	26.0	2706.4	12.6	2691.3	11	-1.3
Spot 254	847688	1071510	60016.1	0.756	8.0	0.7	6.6	1.7	0.4	1.59	0.91401	2067.8	28.2	2056.6	15.4	2045.4	13	-1.1
Spot 255	971305	1227767	30925.2	2.485	5.6	0.9	13.0	2.9	0.5	2.74	0.95038	2703.9	60.6	2677.6	27.2	2657.8	15	-1.7
Spot 256	1282261	1620827	54047.3	2.102	5.5	0.9	13.1	1.9	0.5	1.73	0.88963	2695.6	38.0	2688.7	18.3	2683.4	15	-0.5
Spot 257	783238	990044	50542.3	1.461	7.3	1.0	7.7	1.6	0.4	1.21	0.76894	2179.1	22.3	2194.7	14.1	2209.3	17	1.4
Spot 258	1136649	1436768	25417.3	2.009	8.7	1.0	5.6	1.8	0.4	1.43	0.80952	1938.3	23.9	1918.5	15.2	1897.0	19	-2.2
Spot 259	900124	1137792	99947.4	1.289	5.7	0.8	12.4	1.8	0.5	1.58	0.88220	2631.9	34.1	2632.9	16.8	2633.7	14	0.1
Spot 260	2668022	3372483	31949.2	1.051	7.9	1.0	6.8	2.3	0.4	2.02	0.89223	2110.3	36.4	2091.0	20.1	2072.0	18	-1.8
Spot 261	828880	1047737	48403.0	1.879	5.5	0.8	13.5	1.4	0.5	1.19	0.82517	2743.8	26.5	2715.2	13.6	2693.9	13	-1.9
Spot 262	657957	831684	113680.2	1.885	7.1	0.8	7.2	3.7	0.4	3.63	0.97554	2014.1	62.9	2135.0	33.2	2253.4	14	10.6
Spot 263	1086801	1373758	56173.0	2.405	5.5	0.8	13.4	1.3	0.5	1.01	0.78938	2721.5	22.3	2705.0	12.0	2692.7	13	-1.1
Spot 264	2328607	2943450	131374.7	1.683	5.6	0.7	13.3	1.6	0.5	1.42	0.89286	2754.1	31.9	2700.1	15.0	2659.9	12	-3.5
Spot 265	1948950	2463548	80230.1	2.360	5.1	0.7	15.4	1.2	0.6	0.92	0.78612	2893.5	21.3	2842.0	11.1	2805.6	12	-3.1
Spot 266	309089	390701	11023.0	0.955	5.4	0.9	13.3	2.1	0.5	1.91	0.90161	2707.8	42.1	2703.8	20.0	2700.9	15	-0.3
Spot 267	1582651	2000532	115155.2	1.825	8.4	0.7	6.1	1.8	0.4	1.61	0.90779	2015.6	27.9	1986.4	15.5	1956.1	13	-3.0
Spot 268	2039811	2578400	27330.7	1.864	5.5	0.7	13.1	1.2	0.5	1.01	0.82336	2685.8	22.2	2684.8	11.6	2684.0	12	-0.1
Spot 269	728647	921038	30544.6	2.176	5.5	0.8	13.2	1.5	0.5	1.21	0.82360	2715.6	26.9	2695.9	13.9	2681.3	14	-1.3
Spot 271	445114	562641	31835.0	1.133	7.6	1.0	6.6	3.7	0.4	3.53	0.96015	1995.6	60.6	2057.5	32.4	2120.1	18	5.9
Spot 272	770941	974499	17513.0	2.070	7.2	0.6	8.2	1.5	0.4	1.34	0.90247	2286.7	25.8	2248.2	13.4	2213.4	11	-3.3
Spot 273	1059567	1339334	197917.0	2.068	5.5	0.7	13.4	1.3	0.5	1.11	0.83393	2732.7	24.7	2706.6	12.6	2687.2	12	-1.7

Spot 274	787875	995905	698712.1	2.020	7.7	0.9	6.9	1.5	0.4	1.20	0.80225	2084.3	21.3	2095.9	13.2	2107.2	16	1.1
Spot 275	2350760	2971451	93878.2	1.676	5.6	0.7	12.9	1.5	0.5	1.32	0.88946	2698.9	29.2	2669.3	14.0	2646.9	11	-2.0
Spot 276	384874	486496	31232.6	3.283	7.6	1.2	6.3	4.4	0.3	4.19	0.95944	1905.9	69.1	2019.6	38.3	2137.9	22	10.9
Spot 278	240017	303391	1957.0	1.746	7.3	2.5	6.9	3.2	0.4	2.02	0.62471	2071.0	35.8	2099.6	28.7	2127.6	44	2.7
Spot 279	1102111	1393110	21627.3	2.705	8.8	0.8	5.5	2.7	0.3	2.54	0.95394	1925.8	42.4	1901.4	22.9	1874.8	14	-2.7
Spot 280	754585	953825	17375.5	2.429	5.5	0.9	13.2	1.6	0.5	1.36	0.84151	2688.0	30.0	2691.5	15.3	2694.2	14	0.2
Spot 281	1281258	1619560	22020.0	1.508	8.1	0.7	6.4	1.6	0.4	1.37	0.87612	2053.4	24.1	2031.5	13.7	2009.2	13	-2.2
Spot 282	1016209	1284528	38489.8	1.531	7.8	0.9	7.2	1.6	0.4	1.31	0.80983	2169.4	24.1	2133.3	14.4	2098.7	17	-3.4
Spot 283	853059	1078300	12283.6	1.479	7.6	0.9	6.3	3.7	0.3	3.63	0.96863	1913.4	60.1	2017.9	32.9	2126.5	16	10.0
Spot 284	545565	689616	18521.6	1.828	7.6	1.0	7.0	1.8	0.4	1.41	0.79987	2082.7	25.0	2109.5	15.6	2135.7	18	2.5
Spot 285	2277797	2879224	44776.6	2.676	7.8	0.6	6.9	1.2	0.4	1.07	0.85777	2118.1	19.3	2102.3	11.1	2086.9	11	-1.5
Spot 286	1755619	2219171	81390.4	0.770	5.5	0.7	13.5	1.8	0.5	1.67	0.91778	2740.1	37.4	2714.5	17.2	2695.5	12	-1.7
Spot 287	448159	566490	48382.8	2.778	7.4	0.8	6.9	3.3	0.4	3.16	0.96942	1995.1	54.3	2094.8	28.9	2194.2	14	9.1
Spot 288	204526	258528	2862.5	1.764	7.4	1.6	6.8	2.8	0.4	2.21	0.80216	2033.1	38.5	2084.8	24.4	2136.3	29	4.8
Spot 289	294430	372171	5600.7	1.303	5.0	0.9	14.8	1.7	0.5	1.43	0.84883	2761.4	32.2	2804.7	16.1	2835.9	15	2.6
Spot 290	440999	557440	30880.8	2.148	7.2	1.1	7.6	2.0	0.4	1.73	0.84449	2134.9	31.4	2187.1	18.3	2236.3	19	4.5
Spot 291	1347783	1703650	57360.2	2.180	5.5	0.8	13.5	1.4	0.5	1.21	0.84694	2750.6	27.2	2715.0	13.5	2688.6	13	-2.3
Spot 292	193859	245046	2641.1	2.416	6.1	1.2	10.5	2.2	0.5	1.78	0.80534	2465.0	36.4	2476.2	20.5	2485.4	22	0.8
Spot 293	789257	997651	9564.4	1.768	6.2	3.1	8.7	3.4	0.4	1.38	0.40295	2126.2	25.0	2310.7	31.3	2477.9	53	14.2
Spot 294	2370629	2996567	47812.2	4.681	5.3	0.6	14.7	1.3	0.6	1.16	0.87557	2863.3	26.8	2799.2	12.6	2753.4	10	-4.0
Spot 296	993661	1256026	13916.0	1.209	8.8	0.9	5.2	1.8	0.3	1.54	0.85963	1837.1	24.6	1857.0	15.2	1879.4	16	2.3
Spot 297	893514	1129436	33450.0	1.745	7.8	0.8	6.8	2.0	0.4	1.77	0.90104	2061.7	31.2	2081.7	17.3	2101.5	15	1.9
Spot 298	1391323	1758687	33014.8	1.031	8.8	0.7	5.7	1.5	0.4	1.33	0.87198	1966.4	22.6	1926.6	13.2	1884.1	13	-4.4
Spot 299	209616	264963	5470.4	2.566	7.3	1.5	7.5	2.3	0.4	1.68	0.73727	2164.5	31.0	2176.6	20.5	2187.9	27	1.1
Spot 300	600148	758611	16410.9	2.057	5.5	0.8	13.2	1.4	0.5	1.07	0.78333	2691.2	23.5	2691.0	12.8	2690.9	14	0.0
Spot 301	820375	1036986	27394.9	0.710	6.8	0.8	8.7	1.6	0.4	1.42	0.87982	2293.5	27.4	2309.7	14.7	2324.0	13	1.3
Spot 302	329405	416380	13841.3	0.718	5.7	1.1	12.8	1.7	0.5	1.32	0.76604	2717.5	29.4	2666.4	16.3	2627.8	18	-3.4
Spot 303	800930	1012407	340616.2	2.904	7.5	0.9	7.1	2.7	0.4	2.58	0.93996	2092.3	46.1	2126.2	24.4	2159.1	16	3.1
Spot 304	1361536	1721034	36322.7	1.678	5.6	0.9	12.9	1.6	0.5	1.33	0.84059	2675.2	29.0	2669.5	14.9	2665.3	14	-0.4
Spot 305	708661	895774	161322.8	2.492	7.6	1.0	7.2	1.7	0.4	1.33	0.78547	2139.8	24.2	2139.3	15.1	2138.8	18	0.0
Spot 306	492174	622127	7625.1	1.617	8.6	1.0	5.4	1.8	0.3	1.46	0.82706	1857.7	23.6	1879.0	15.1	1902.6	18	2.4
Spot 307	1252380	1583057	39796.1	2.213	5.4	0.7	13.8	1.4	0.5	1.20	0.85485	2734.3	26.7	2734.7	13.3	2734.9	12	0.0
Spot 308	1070867	1353617	38813.3	2.580	5.0	0.9	15.9	1.6	0.6	1.37	0.83311	2910.7	32.1	2869.9	15.7	2841.4	15	-2.4
Spot 309	894055	1130121	132505.7	3.218	5.1	1.2	15.3	1.9	0.6	1.51	0.77760	2879.1	35.1	2836.7	18.5	2806.8	20	-2.6
Spot 310	388254	490769	5644.5	1.180	7.5	1.7	7.0	2.2	0.4	1.35	0.61158	2095.2	24.1	2115.0	19.6	2134.4	30	1.8
Spot 311	1148072	1451207	36126.3	1.867	7.4	0.8	7.8	1.6	0.4	1.39	0.86078	2230.7	26.2	2204.6	14.5	2180.5	14	-2.3
Spot 312	770567	974027	48866.0	2.147	7.4	0.9	7.4	1.4	0.4	1.03	0.76168	2128.0	18.7	2156.3	12.1	2183.4	15	2.5
Spot 313	1415950	1789816	47067.3	1.799	5.6	0.8	13.0	1.3	0.5	0.96	0.76587	2716.7	21.3	2677.8	11.8	2648.6	13	-2.6
Spot 314	938138	1185842	75009.3	2.627	5.5	1.1	13.7	1.8	0.5	1.41	0.78887	2767.2	31.7	2729.3	16.9	2701.3	18	-2.4
Spot 315	428576	541737	18538.7	1.168	3.5	0.9	26.9	1.5	0.7	1.18	0.80145	3306.8	30.4	3380.7	14.4	3424.8	14	3.4

Run 1 (discordant Sept 2021)

Spot 1	449477	568156	179767.1	1.754	10.8	5.9	6.4	30.6	0.5	30.00	0.98133	2630.1	650.1	2036.9	275.2	1480.1	112	-77.7
Spot 124	650601	822385	34789.7	1.884	8.2	7.7	6.6	16.0	0.4	14.06	0.87704	2140.3	256.2	2060.7	142.3	1982.0	137	-8.0

Spot 14	330171	417349	4348.0	1.124	5.8	7.6	12.9	10.5	0.5	7.24	0.68770	2771.8	163.2	2669.1	99.6	2592.2	128	-6.9
Spot 156	738718	933768	34539.7	1.073	7.8	6.1	6.5	10.3	0.4	8.29	0.80376	2038.3	144.9	2051.2	91.1	2064.2	108	1.3
Spot 170	452937	572530	203556.7	2.127	7.9	8.1	7.4	12.9	0.4	10.07	0.77970	2255.9	191.7	2155.2	115.9	2060.6	143	-9.5
Spot 173	585605	740228	27271.0	2.557	7.8	1.0	7.2	2.1	0.4	1.87	0.88630	2194.6	34.8	2135.8	18.8	2079.7	17	-5.5
Spot 181	426442	539040	32393.8	1.830	6.6	7.8	10.0	8.1	0.5	2.33	0.28697	2508.2	48.3	2434.2	75.0	2373.0	133	-5.7
Spot 186	803787	1016017	67035.0	2.463	5.8	2.9	19.4	13.2	0.8	12.86	0.97598	3861.4	374.1	3063.1	127.9	2574.7	48	-50.0
Spot 198	124018	156764	6630.0	1.704	4.9	13.0	20.1	24.8	0.7	21.10	0.85139	3490.4	570.2	3093.8	244.3	2845.6	213	-22.7
Spot 21	1254402	1585613	29613.0	1.913	5.5	0.9	13.6	1.5	0.5	1.21	0.79582	2801.7	27.5	2720.3	14.4	2660.3	15	-5.3
Spot 211	1429252	1806630	36027.5	2.240	8.7	0.8	5.8	1.2	0.4	0.96	0.78246	2019.9	16.6	1946.0	10.6	1868.2	14	-8.1
Spot 236	657769	831445	33482.0	1.190	8.3	7.6	6.8	13.9	0.4	11.59	0.83462	2213.9	217.2	2085.5	123.5	1961.0	137	-12.9
Spot 246	2507746	3169888	182298.6	1.665	5.7	0.8	13.1	1.8	0.5	1.61	0.88737	2780.9	36.3	2687.7	17.1	2618.4	14	-6.2
Spot 248	456146	576586	7365.5	2.978	7.8	3.9	7.1	6.3	0.4	4.97	0.79069	2192.4	92.4	2128.2	56.1	2066.7	68	-6.1
Spot 252	144300	182401	17393.1	1.171	21.2	0.8	6.6	1.3	1.0	0.97	0.76681	4502.2	31.5	2055.7	11.2	57.8	19	####
Spot 26	150687	190475	3400.8	1.286	8.8	2.1	6.1	3.6	0.4	2.86	0.80400	2127.2	51.8	1993.8	31.1	1858.2	38	-14.5
Spot 270	1541845	1948952	66080.6	1.687	7.6	0.8	7.6	1.6	0.4	1.41	0.87624	2234.9	26.6	2179.6	14.4	2127.9	14	-5.0
Spot 277	196742	248689	8471.6	1.288	8.1	6.8	6.7	12.1	0.4	10.00	0.82873	2139.0	182.0	2067.4	106.9	1996.8	120	-7.1
Spot 295	257325	325269	6955.6	2.217	8.0	5.0	7.2	8.6	0.4	7.01	0.81335	2234.9	132.4	2132.5	76.9	2035.2	89	-9.8
Spot 30	99728	126060	1419.6	5.509	7.9	1.6	6.9	2.3	0.4	1.67	0.71706	2157.0	30.7	2102.3	20.7	2049.1	29	-5.3
Spot 67	27475	34729	1000.0	3.606	5.1	1.0	27.4	1.2	1.0	0.60	0.51417	4529.7	19.5	3399.2	11.4	2786.9	16	-62.5
Spot 9	1021575	1291311	30187.7	1.975	7.9	0.9	7.0	1.6	0.4	1.35	0.83576	2178.4	25.0	2116.6	14.4	2057.0	16	-5.9

Run 1 (Nov.)

Spot 1	751171	740588	350334.3	1.924	7.5	0.6	7.2	1.3	0.4	1.11	0.86466	2146.5	20.3	2140.0	11.5	2133.7	11	-0.6
Spot 2	1820151	1794507	151108.3	2.084	5.3	0.6	12.9	1.0	0.5	0.87	0.83877	2633.2	18.9	2675.2	9.8	2707.1	9	2.7
Spot 3	557270	549419	122018.2	2.211	7.5	0.7	7.1	1.3	0.4	1.03	0.81700	2129.0	18.7	2129.7	11.2	2130.4	13	0.1
Spot 4	815927	804432	104682.3	3.220	7.6	0.7	7.3	1.1	0.4	0.85	0.77678	2185.0	15.8	2150.8	9.8	2118.4	12	-3.1
Spot 5	518526	511221	30807.1	1.530	7.2	0.9	7.7	1.4	0.4	1.14	0.79753	2180.4	21.1	2193.4	12.8	2205.6	15	1.1
Spot 6	999276	985198	114734.6	1.617	5.8	0.7	11.5	1.1	0.5	0.84	0.77493	2566.1	17.8	2565.4	10.1	2564.9	11	0.0
Spot 7	671957	662490	57908.0	1.866	7.5	0.9	7.2	1.3	0.4	1.01	0.76444	2144.8	18.5	2137.2	11.8	2130.0	15	-0.7
Spot 8	464108	457569	38534.1	0.551	7.9	0.6	6.5	1.1	0.4	0.94	0.83368	2048.6	16.4	2039.8	9.9	2030.9	11	-0.9
Spot 9	1513927	1492598	328016.2	2.276	5.4	0.6	13.4	1.1	0.5	0.93	0.83645	2726.6	20.6	2709.3	10.5	2696.4	10	-1.1
Spot 10	765716	754928	114898.7	3.548	7.4	0.7	7.5	1.2	0.4	0.95	0.82135	2197.3	17.7	2175.7	10.4	2155.3	12	-1.9
Spot 11	1452722	1432255	259603.9	1.257	7.8	0.6	6.8	1.0	0.4	0.87	0.83355	2115.1	15.7	2084.8	9.2	2055.0	10	-2.9
Spot 12	1775511	1750496	369214.9	1.181	7.6	0.5	6.9	1.0	0.4	0.83	0.85089	2093.4	14.9	2095.0	8.7	2096.6	9	0.2
Spot 13	1310968	1292498	99421.8	2.803	5.3	0.6	13.1	1.1	0.5	0.96	0.84547	2660.9	20.8	2684.8	10.7	2702.9	10	1.6
Spot 14	1475951	1455157	207821.5	2.265	7.6	0.4	7.2	1.0	0.4	0.91	0.91650	2151.9	16.6	2130.9	8.8	2110.8	7	-1.9
Spot 15	1818789	1793165	449641.4	1.221	6.4	0.7	9.7	1.3	0.5	1.05	0.83568	2418.6	21.2	2407.3	11.6	2397.7	12	-0.9
Spot 16	1123125	1107301	259864.5	1.814	7.4	0.6	7.3	1.1	0.4	0.94	0.84049	2159.7	17.2	2154.1	10.0	2148.7	11	-0.5
Spot 17	2004028	1975794	424772.4	1.900	7.2	0.5	7.7	1.1	0.4	1.01	0.87846	2201.2	18.8	2201.4	10.3	2201.6	10	0.0
Spot 18	518611	511304	99031.4	1.266	4.0	0.8	21.8	1.2	0.6	0.89	0.76167	3168.8	22.2	3175.3	11.3	3179.4	12	0.3
Spot 19	267585	263815	52828.8	1.673	4.0	0.8	22.5	1.5	0.7	1.20	0.82177	3250.6	30.7	3203.6	14.2	3174.3	13	-2.4
Spot 20	1124687	1108842	88982.6	1.695	7.4	0.6	7.5	1.0	0.4	0.76	0.78942	2205.4	14.2	2177.8	8.6	2151.9	10	-2.5
Spot 21	549484	541742	60080.5	1.671	7.5	0.7	7.0	1.0	0.4	0.77	0.74611	2093.4	13.7	2106.2	9.1	2118.7	12	1.2
Spot 22	1321440	1302822	182119.7	1.038	5.8	0.6	11.7	1.0	0.5	0.85	0.81184	2575.8	18.1	2577.6	9.8	2579.1	10	0.1

Spot 23	870266	858005	99661.7	1.939	7.5	0.6	7.3	1.0	0.4	0.83	0.78744	2166.8	15.2	2144.7	9.4	2123.5	11	-2.0
Spot 24	747828	737292	#####	1.589	5.4	0.6	13.2	1.2	0.5	1.02	0.86347	2706.3	22.6	2697.3	11.2	2690.6	10	-0.6
Spot 25	915684	902784	192568.7	3.190	7.4	0.9	7.5	1.3	0.4	0.88	0.69537	2186.4	16.3	2170.5	11.3	2155.6	16	-1.4
Spot 26	361807	356710	23479.3	2.066	7.4	0.9	7.4	1.5	0.4	1.12	0.76526	2186.5	20.7	2163.1	13.1	2140.9	16	-2.1
Spot 27	1621780	1598931	125627.1	1.861	7.5	0.7	7.3	1.2	0.4	0.98	0.82800	2168.7	18.0	2152.4	10.5	2136.8	12	-1.5
Spot 28	429156	423110	94485.6	2.033	7.4	0.6	7.7	0.9	0.4	0.64	0.74999	2247.1	12.2	2198.4	7.7	2153.2	10	-4.4
Spot 29	1101995	1086469	169927.9	2.608	7.3	0.8	7.7	1.3	0.4	1.07	0.80253	2215.4	20.1	2200.3	12.0	2186.2	14	-1.3
Spot 30	1310330	1291869	201287.2	2.398	5.4	0.6	13.3	0.9	0.5	0.65	0.74112	2704.8	14.4	2698.9	8.3	2694.5	10	-0.4
Spot 31	223160	220016	59961.9	1.528	5.4	0.9	13.1	1.4	0.5	1.11	0.76791	2671.1	24.3	2685.3	13.7	2696.1	15	0.9
Spot 32	994335	980326	172510.8	1.990	4.6	0.7	17.5	1.1	0.6	0.86	0.79743	2946.4	20.4	2960.4	10.4	2970.0	11	0.8
Spot 33	1263042	1245248	232559.0	2.829	7.1	0.7	7.8	1.3	0.4	1.14	0.85888	2186.2	21.1	2206.7	11.9	2225.7	12	1.8
Spot 34	617900	609195	116874.3	3.719	7.5	0.7	7.5	1.0	0.4	0.64	0.67051	2204.4	12.0	2171.4	8.6	2140.3	12	-3.0
Spot 35	2056785	2027808	913088.2	2.342	5.3	0.6	13.4	1.3	0.5	1.13	0.87406	2690.1	24.8	2707.1	12.2	2719.8	10	1.1
Spot 36	931319	918198	101949.6	0.840	5.4	0.7	13.0	1.2	0.5	0.99	0.82535	2684.2	21.8	2679.2	11.4	2675.4	11	-0.3
Spot 37	1119672	1103898	155999.0	2.324	5.6	0.5	12.2	1.0	0.5	0.84	0.83873	2608.9	18.0	2618.6	9.4	2626.0	9	0.7
Spot 38	1523871	1502402	82145.9	1.937	7.4	0.7	7.6	1.3	0.4	1.08	0.83709	2205.7	20.2	2183.1	11.6	2161.9	12	-2.0
Spot 39	1122108	1106300	100085.6	2.190	7.5	0.7	7.2	1.3	0.4	1.08	0.83739	2153.7	19.7	2140.2	11.5	2127.3	12	-1.2
Spot 40	588445	580155	853406.9	2.682	5.3	0.6	13.0	1.0	0.5	0.82	0.79458	2639.7	17.9	2682.1	9.8	2714.1	10	2.7
Spot 41	4550451	4486342	130669.0	2.124	7.6	0.4	6.8	0.7	0.4	0.57	0.80447	2059.6	10.0	2085.6	6.3	2111.3	7	2.4
Spot 42	976750	962989	254253.4	1.969	5.4	0.5	13.0	1.1	0.5	0.96	0.87187	2673.9	21.0	2679.1	10.4	2682.9	9	0.3
Spot 43	1562984	1540964	113280.4	2.677	7.8	0.6	6.6	1.2	0.4	1.07	0.86448	2061.0	18.9	2060.0	11.0	2058.9	11	-0.1
Spot 44	475292	468595	64831.9	2.338	5.9	0.4	11.1	0.8	0.5	0.71	0.86935	2527.4	14.8	2534.1	7.6	2539.4	7	0.5
Spot 45	1130450	1114523	429077.2	2.089	4.8	0.7	16.5	1.1	0.6	0.83	0.77977	2927.3	19.6	2908.7	10.2	2895.9	11	-1.1
Spot 46	603067	594571	127452.3	1.491	5.6	0.7	12.4	1.3	0.5	1.09	0.83660	2646.2	23.6	2637.5	12.2	2630.9	12	-0.6
Spot 47	1975809	1947973	385872.0	2.735	7.1	0.6	7.8	1.1	0.4	0.91	0.84543	2196.1	17.0	2207.6	9.7	2218.4	10	1.0
Spot 48	1806587	1781135	559606.5	1.384	7.6	0.6	7.1	1.1	0.4	0.93	0.83207	2137.0	16.8	2125.8	9.9	2115.0	11	-1.0
Spot 49	1551965	1530100	260618.4	1.591	7.4	0.6	7.2	1.3	0.4	1.11	0.87673	2117.1	20.0	2139.4	11.3	2160.9	11	2.0
Spot 50	1000335	986242	81984.5	2.478	7.4	0.6	7.3	1.0	0.4	0.83	0.79499	2146.6	15.1	2148.4	9.3	2150.0	11	0.2
Spot 51	1612879	1590155	736583.2	2.863	4.3	0.7	18.8	0.9	0.6	0.58	0.62472	3015.9	13.9	3032.0	8.9	3042.6	12	0.9
Spot 52	1249803	1232195	68323.8	1.726	8.5	0.8	5.5	1.3	0.3	0.98	0.77095	1903.8	16.1	1900.0	10.9	1895.9	15	-0.4
Spot 53	610269	601671	32231.1	1.534	7.5	0.8	7.1	1.2	0.4	0.87	0.74020	2117.3	15.7	2117.8	10.4	2118.2	14	0.0
Spot 54	1004047	989902	73106.1	2.206	5.4	0.8	13.2	1.2	0.5	0.91	0.73241	2718.1	20.2	2696.0	11.7	2679.4	14	-1.4
Spot 55	1368911	1349625	89983.3	2.142	5.4	0.5	12.9	1.0	0.5	0.84	0.84070	2643.2	18.3	2669.9	9.5	2690.1	9	1.7
Spot 56	1408739	1388892	156909.5	1.704	7.6	0.8	7.0	1.2	0.4	0.93	0.77630	2115.1	16.7	2110.8	10.6	2106.6	13	-0.4
Spot 57	1108022	1092411	170613.3	3.808	7.1	0.7	7.7	1.1	0.4	0.90	0.79074	2170.7	16.6	2199.5	10.3	2226.4	12	2.5
Spot 58	1099785	1084290	439114.8	0.998	7.7	0.8	6.7	1.3	0.4	1.05	0.79984	2062.4	18.6	2073.3	11.6	2084.1	14	1.0
Spot 59	699281	689429	459059.7	2.063	7.6	0.6	6.9	1.0	0.4	0.78	0.79494	2089.5	13.8	2102.3	8.7	2114.8	10	1.2
Spot 60	1123671	1107840	137365.8	2.584	4.5	1.3	17.2	1.6	0.6	0.97	0.60335	2880.6	22.5	2948.2	15.4	2994.7	21	3.8
Spot 61	2140250	2110097	#####	2.114	7.5	0.5	7.1	0.9	0.4	0.71	0.81482	2128.0	12.9	2125.3	7.8	2122.6	9	-0.3
Spot 62	2314164	2281561	135022.3	2.036	8.5	0.8	5.5	1.6	0.3	1.38	0.85415	1878.6	22.4	1893.1	13.8	1909.0	15	1.6
Spot 63	977988	964209	711802.7	3.016	7.6	0.7	7.0	1.4	0.4	1.20	0.86926	2118.5	21.7	2117.6	12.3	2116.7	12	-0.1
Spot 64	1697606	1673689	127077.4	1.366	8.5	0.5	5.5	0.9	0.3	0.78	0.82310	1896.3	12.8	1898.9	8.1	1901.7	10	0.3
Spot 65	774553	763640	531799.5	1.996	7.3	0.6	7.4	1.0	0.4	0.84	0.82800	2163.3	15.4	2166.7	9.1	2169.8	10	0.3

Spot 66	899922	887243	141951.2	1.721	6.9	0.6	8.6	0.9	0.4	0.67	0.76351	2308.9	13.0	2296.3	8.0	2285.1	10	-1.0
Spot 67	1331502	1312743	270583.9	2.279	4.6	0.6	16.7	1.0	0.6	0.84	0.82169	2892.8	19.6	2919.3	9.8	2937.6	9	1.5
Spot 68	173670	171224	16898.9	1.463	5.2	0.9	12.9	1.2	0.5	0.88	0.71441	2581.7	18.7	2674.8	11.6	2746.0	14	6.0
Spot 69	1588692	1566310	579735.6	2.021	5.3	0.6	13.2	1.1	0.5	0.99	0.87341	2668.0	21.7	2694.5	10.7	2714.3	9	1.7
Spot 70	756480	745823	158829.0	1.749	5.4	0.6	13.2	0.9	0.5	0.64	0.72041	2703.9	14.1	2694.7	8.4	2687.7	10	-0.6
Spot 71	562923	554992	101887.0	3.529	7.5	0.6	7.2	1.2	0.4	1.02	0.85085	2136.4	18.6	2133.5	10.7	2130.8	11	-0.3
Spot 72	1811651	1786127	232602.7	2.533	7.3	0.6	7.4	1.1	0.4	0.88	0.82150	2145.6	16.0	2155.3	9.5	2164.6	11	0.9
Spot 73	1252950	1235298	127436.4	1.500	4.7	0.6	16.9	1.2	0.6	0.98	0.84021	2929.1	23.1	2928.3	11.2	2927.7	10	0.0
Spot 74	96304	94947	11426.5	0.892	7.4	1.1	7.6	1.4	0.4	0.94	0.66041	2226.6	17.7	2179.2	12.8	2134.9	19	-4.3
Spot 75	1875986	1849556	240175.6	1.875	5.4	0.6	13.0	0.9	0.5	0.64	0.74670	2663.4	14.1	2680.3	8.1	2693.1	9	1.1
Spot 76	90585	89309	28232.8	1.726	5.6	0.9	11.9	1.3	0.5	0.92	0.71329	2571.6	19.5	2597.5	12.1	2617.8	15	1.8
Spot 77	1559372	1537403	138923.1	2.099	7.3	0.6	7.6	1.1	0.4	0.93	0.84779	2200.7	17.3	2185.5	9.8	2171.2	10	-1.4
Spot 78	311022	306640	25824.9	2.636	7.3	0.7	7.3	1.3	0.4	1.08	0.84690	2138.6	19.7	2150.7	11.4	2162.2	12	1.1
Spot 79	1367170	1347908	356604.2	1.456	8.6	0.5	5.5	0.8	0.3	0.66	0.80841	1903.1	10.9	1897.7	7.1	1891.8	9	-0.6
Spot 80	1596720	1574225	127904.9	1.744	8.6	1.8	5.5	2.6	0.3	1.88	0.73237	1917.1	31.2	1898.7	22.1	1878.6	32	-2.0
Spot 81	1173495	1156962	96440.0	1.302	8.3	0.5	5.8	0.8	0.4	0.69	0.82428	1959.2	11.7	1952.7	7.3	1945.7	8	-0.7
Spot 82	1098771	1083291	120104.1	1.472	8.3	0.8	6.0	1.3	0.4	0.96	0.75856	1982.6	16.3	1971.0	11.0	1958.7	15	-1.2
Spot 83	1006472	992292	#####	1.060	5.3	0.7	13.6	1.1	0.5	0.89	0.79254	2750.9	20.0	2724.7	10.7	2705.4	11	-1.7
Spot 84	344033	339186	50417.1	3.139	7.3	0.8	7.3	1.3	0.4	1.06	0.80550	2143.9	19.4	2152.7	11.8	2161.1	14	0.8
Spot 85	1671137	1647593	776624.5	2.584	5.5	0.5	12.4	1.0	0.5	0.88	0.87075	2630.6	18.9	2637.5	9.5	2642.8	8	0.5
Spot 86	1433315	1413122	183807.6	1.938	7.7	0.6	6.9	1.0	0.4	0.81	0.81203	2113.5	14.6	2097.5	8.8	2081.7	10	-1.5
Spot 87	2014787	1986402	547422.8	2.227	5.3	0.7	13.3	1.3	0.5	1.11	0.85321	2691.5	24.5	2698.3	12.3	2703.3	11	0.4
Spot 88	585421	577173	99982.6	2.656	7.4	0.7	7.4	1.2	0.4	0.97	0.79472	2166.4	17.8	2162.2	10.9	2158.2	13	-0.4
Spot 89	830677	818974	49207.1	2.010	7.6	0.9	7.0	1.4	0.4	1.11	0.78587	2111.6	20.1	2107.7	12.6	2103.9	15	-0.4
Spot 90	205980	203078	20506.5	1.760	6.2	0.8	10.1	1.4	0.5	1.10	0.79634	2454.3	22.5	2447.1	12.8	2441.2	14	-0.5
Spot 91	469279	462667	47067.6	2.718	7.6	0.7	7.2	1.1	0.4	0.83	0.77058	2178.4	15.4	2142.2	9.6	2107.6	12	-3.4
Spot 92	1531031	1509461	371092.7	1.313	5.4	0.7	13.3	1.3	0.5	1.06	0.83587	2726.6	23.6	2703.8	12.0	2686.9	12	-1.5
Spot 93	629718	620846	91368.1	2.703	7.4	0.8	7.3	1.3	0.4	1.05	0.81056	2162.2	19.4	2154.8	11.6	2147.8	13	-0.7
Spot 94	363176	358059	59147.4	2.578	7.3	0.7	7.6	1.2	0.4	1.02	0.83378	2212.7	19.1	2187.5	11.0	2163.9	12	-2.3
Spot 95	1018959	1004603	153974.9	2.509	7.5	0.8	7.2	1.3	0.4	1.01	0.79077	2164.2	18.5	2139.9	11.4	2116.7	14	-2.2
Spot 96	1814774	1789207	#####	1.453	7.2	0.5	7.6	0.9	0.4	0.77	0.82390	2170.2	14.2	2183.7	8.4	2196.5	9	1.2
Spot 97	994297	980289	112548.6	1.847	5.4	0.5	13.3	1.1	0.5	0.92	0.86658	2705.4	20.4	2700.1	10.1	2696.2	9	-0.3
Spot 98	456110	449684	681592.3	1.128	7.8	1.1	6.8	1.6	0.4	1.13	0.70870	2093.5	20.2	2080.1	14.1	2066.8	20	-1.3
Spot 99	1346955	1327979	105054.8	2.045	7.5	0.4	7.4	0.9	0.4	0.77	0.88026	2199.5	14.4	2165.9	7.9	2134.2	7	-3.1
Spot 100	538476	530889	72652.7	2.533	7.2	0.8	7.8	1.2	0.4	0.93	0.77205	2227.8	17.6	2213.5	10.9	2200.3	13	-1.2
Spot 101	1112180	1096511	278866.9	1.818	7.7	0.7	6.8	1.2	0.4	1.01	0.80698	2085.1	17.9	2086.2	11.1	2087.3	13	0.1
Spot 102	353078	348104	91029.8	0.816	7.6	1.0	6.7	1.5	0.4	1.07	0.72645	2038.7	18.8	2069.9	13.1	2101.0	18	3.0
Spot 103	598579	590145	136924.9	2.338	7.4	0.6	7.5	1.2	0.4	0.97	0.83915	2196.1	18.0	2171.1	10.3	2147.5	11	-2.3
Spot 104	1214871	1197755	381575.7	1.252	8.5	0.5	5.6	0.9	0.3	0.76	0.85610	1918.3	12.6	1908.4	7.6	1897.7	8	-1.1
Spot 105	775102	764182	46916.5	1.762	7.3	0.9	7.7	1.4	0.4	1.13	0.79692	2235.5	21.4	2200.5	12.8	2168.1	15	-3.1
Spot 106	764025	753261	54663.1	1.876	7.1	0.7	7.7	1.3	0.4	1.14	0.85590	2176.3	21.1	2194.9	12.0	2212.3	12	1.6
Spot 107	512046	504832	104552.4	1.417	5.4	0.6	13.1	1.0	0.5	0.78	0.81038	2700.7	17.2	2684.2	9.1	2671.9	9	-1.1
Spot 108	1740151	1715635	140094.6	1.935	5.3	0.6	13.1	1.1	0.5	0.92	0.83420	2667.4	20.2	2686.5	10.5	2701.0	10	1.2

Spot 109	1751820	1727139	101586.7	1.799	7.2	0.6	7.6	1.1	0.4	0.90	0.82073	2186.7	16.7	2188.1	9.9	2189.4	11	0.1
Spot 110	544595	536922	72482.4	0.871	7.5	0.7	7.2	1.2	0.4	1.01	0.80674	2138.1	18.3	2133.6	11.1	2129.2	13	-0.4
Spot 111	1111155	1095501	107713.2	1.736	7.3	0.7	7.2	1.3	0.4	1.08	0.83227	2116.6	19.5	2138.6	11.6	2159.8	13	2.0
Spot 112	830371	818673	171669.9	1.831	7.2	0.7	7.6	1.2	0.4	0.94	0.78410	2188.3	17.5	2190.4	10.8	2192.4	13	0.2
Spot 113	534462	526932	211480.1	1.666	3.7	0.7	24.6	1.1	0.7	0.86	0.76271	3279.4	22.2	3294.0	11.0	3302.9	11	0.7
Spot 114	1904176	1877349	103589.3	1.383	7.6	0.5	6.9	1.0	0.4	0.81	0.84954	2101.9	14.6	2102.1	8.5	2102.4	9	0.0
Spot 115	1201260	1184336	97952.3	0.698	7.9	0.7	6.7	1.1	0.4	0.90	0.79949	2100.8	16.1	2072.2	9.9	2043.9	12	-2.8
Spot 116	1539104	1517421	82504.1	1.577	8.5	0.7	5.4	1.0	0.3	0.78	0.76244	1879.6	12.7	1887.6	8.7	1896.4	12	0.9
Spot 117	1341525	1322624	#####	2.911	7.8	0.6	6.7	1.2	0.4	1.01	0.84319	2077.8	17.9	2072.0	10.6	2066.2	11	-0.6
Spot 118	1374918	1355548	82251.3	2.198	5.3	0.7	13.4	1.1	0.5	0.87	0.77865	2715.0	19.2	2710.4	10.5	2707.0	12	-0.3
Spot 119	2558899	2522848	292253.6	1.718	5.3	0.6	13.1	0.9	0.5	0.70	0.77936	2660.9	15.2	2683.9	8.4	2701.3	9	1.5
Spot 120	1496313	1475232	#####	1.677	8.6	0.7	5.4	1.1	0.3	0.91	0.79602	1874.4	14.8	1878.5	9.8	1883.1	12	0.5
Spot 121	2043641	2014849	187756.8	1.979	8.5	0.6	5.4	1.1	0.3	0.92	0.84930	1870.8	14.9	1889.7	9.3	1910.5	10	2.1
Spot 122	861771	849630	518379.4	2.257	7.5	0.7	7.2	1.1	0.4	0.84	0.78291	2170.1	15.4	2142.4	9.5	2116.0	12	-2.6
Spot 123	465603	459043	63392.1	1.492	5.4	0.6	13.1	1.0	0.5	0.82	0.82580	2704.2	18.2	2684.9	9.4	2670.3	9	-1.3
Spot 124	928153	915076	45581.1	3.279	7.5	0.8	7.3	1.4	0.4	1.15	0.83717	2156.7	21.1	2143.1	12.3	2130.0	13	-1.3
Spot 125	871412	859135	94448.3	1.935	8.3	0.8	5.9	1.2	0.4	0.87	0.71918	1964.4	14.8	1956.6	10.5	1948.3	15	-0.8
Spot 126	1912668	1885721	116381.9	2.116	8.5	0.7	5.4	1.1	0.3	0.90	0.80979	1886.5	14.8	1890.5	9.6	1894.9	12	0.4
Spot 127	4119644	4061605	275078.9	0.897	7.4	0.5	7.2	0.9	0.4	0.74	0.85364	2118.7	13.4	2137.3	7.8	2155.3	8	1.7
Spot 128	942912	929628	169089.9	2.683	7.5	0.6	7.2	1.1	0.4	0.94	0.82283	2133.6	17.1	2134.0	10.2	2134.3	11	0.0
Spot 129	375624	370332	120626.4	1.510	4.6	0.7	17.3	1.1	0.6	0.85	0.75670	2943.2	20.0	2951.9	10.8	2957.9	12	0.5
Spot 130	2017856	1989428	307765.0	2.122	5.3	0.7	13.2	1.2	0.5	0.99	0.81390	2668.8	21.6	2697.2	11.5	2718.5	12	1.8
Spot 131	412256	406448	62326.0	1.598	7.3	0.7	7.5	1.1	0.4	0.82	0.75746	2168.6	15.2	2167.3	9.7	2166.0	12	-0.1
Spot 132	1510670	1489387	141941.5	1.245	7.5	0.6	7.2	1.1	0.4	0.86	0.80154	2146.2	15.7	2142.1	9.6	2138.1	11	-0.4
Spot 133	763080	752329	88513.4	2.352	7.5	0.7	7.2	1.5	0.4	1.29	0.87278	2135.1	23.5	2131.0	13.2	2127.1	13	-0.4
Spot 134	939422	926187	159890.9	3.608	7.2	0.6	7.8	1.1	0.4	0.94	0.85245	2222.0	17.7	2207.1	9.9	2193.2	10	-1.3
Spot 135	852058	840054	101898.1	1.837	7.5	0.7	7.4	1.2	0.4	0.95	0.82343	2187.3	17.7	2155.2	10.4	2124.7	12	-2.9
Spot 136	1288426	1270274	511166.9	1.730	7.0	0.5	8.0	0.8	0.4	0.65	0.78911	2218.6	12.1	2231.3	7.4	2243.0	9	1.1
Spot 137	1575189	1552997	292606.0	1.853	7.1	0.6	7.8	1.2	0.4	1.02	0.85274	2198.5	19.0	2206.8	10.8	2214.4	11	0.7
Spot 138	1694524	1670651	192772.4	1.499	7.6	0.6	6.9	1.0	0.4	0.83	0.81293	2070.5	14.6	2092.5	9.0	2114.2	10	2.1
Spot 139	881274	868858	49321.8	1.107	7.6	0.6	7.0	1.1	0.4	0.95	0.83071	2119.7	17.2	2114.3	10.2	2109.0	11	-0.5
Spot 140	839393	827567	#####	1.297	8.6	0.8	5.4	1.2	0.3	0.92	0.76703	1905.6	15.1	1890.5	10.2	1874.0	14	-1.7
Spot 141	681936	672329	61971.0	2.307	3.7	0.6	25.0	1.2	0.7	1.06	0.85359	3330.8	27.5	3307.5	12.1	3293.5	10	-1.1
Spot 142	3809388	3755720	414851.9	1.005	7.4	0.6	7.2	1.1	0.4	0.88	0.81265	2116.9	15.8	2136.4	9.6	2155.2	11	1.8
Spot 143	1428975	1408843	#####	4.039	7.6	0.6	7.1	1.1	0.4	0.94	0.83008	2131.1	17.1	2118.6	10.1	2106.5	11	-1.2
Spot 144	438682	432502	39402.4	1.888	7.6	0.9	7.2	1.4	0.4	1.08	0.76919	2167.0	19.9	2138.1	12.5	2110.5	16	-2.7
Spot 145	1683447	1659730	362577.4	2.172	5.5	0.6	12.7	1.0	0.5	0.73	0.75255	2648.8	15.9	2658.2	9.2	2665.4	11	0.6
Spot 146	510920	503722	97526.3	2.316	8.5	0.7	5.5	1.2	0.3	0.95	0.78601	1903.3	15.6	1906.0	10.4	1909.0	13	0.3
Spot 147	817159	805646	145570.0	1.719	7.0	0.7	8.1	1.4	0.4	1.20	0.85803	2243.4	22.7	2240.3	12.6	2237.4	12	-0.3
Spot 148	1596258	1573769	320139.7	2.217	5.3	0.7	13.1	1.0	0.5	0.79	0.75597	2670.3	17.3	2688.7	9.9	2702.5	11	1.2
Spot 149	607607	599047	46265.7	1.749	7.5	0.7	7.2	1.3	0.4	1.10	0.83689	2163.3	20.3	2139.2	11.8	2116.1	13	-2.2
Spot 150	1915772	1888782	101685.7	1.255	4.9	0.6	15.4	1.1	0.6	0.91	0.82712	2828.0	20.8	2839.5	10.5	2847.7	10	0.7
Spot 151	1572325	1550174	861158.9	1.769	7.2	0.5	7.7	0.9	0.4	0.70	0.80963	2195.7	13.0	2192.7	7.7	2189.8	9	-0.3

Spot 152	1584599	1562275	115206.6	2.261	5.4	0.7	13.1	1.1	0.5	0.92	0.80532	2678.6	20.1	2688.0	10.8	2695.0	11	0.6
Spot 153	764478	753708	118887.8	1.154	7.1	0.8	8.0	1.1	0.4	0.78	0.69944	2245.1	14.8	2228.5	10.0	2213.4	14	-1.4
Spot 154	575655	567545	46233.3	2.392	8.6	0.6	5.4	1.0	0.3	0.75	0.77732	1898.0	12.3	1888.7	8.2	1878.6	11	-1.0
Spot 155	1607973	1585319	437854.8	1.285	4.8	0.5	15.4	0.9	0.5	0.73	0.82304	2808.6	16.6	2841.5	8.4	2864.8	8	2.0
Spot 156	895408	882793	30913.2	2.901	7.4	0.7	7.3	1.2	0.4	0.97	0.81813	2137.9	17.7	2142.7	10.6	2147.2	12	0.4
Spot 157	578965	570808	34861.7	2.196	7.4	0.6	7.2	1.1	0.4	0.92	0.83741	2133.7	16.7	2141.9	9.8	2149.8	10	0.7
Spot 158	1963524	1935861	90787.0	1.733	8.5	0.4	5.4	0.8	0.3	0.68	0.86267	1881.1	11.2	1890.5	6.8	1900.8	7	1.0
Spot 159	1480649	1459789	90345.4	1.848	7.3	0.5	7.6	0.9	0.4	0.71	0.81959	2188.6	13.2	2182.0	7.8	2175.9	9	-0.6
Spot 160	4695797	4629640	#####	2.023	7.3	0.6	7.4	1.3	0.4	1.12	0.88466	2149.7	20.5	2165.2	11.3	2180.0	10	1.4
Spot 161	393867	388318	204190.6	1.934	7.3	0.6	7.3	1.2	0.4	1.00	0.85111	2128.6	18.1	2146.2	10.5	2163.1	11	1.6
Spot 162	2103077	2073447	831601.5	1.743	8.5	0.6	5.5	0.9	0.3	0.69	0.75194	1884.4	11.3	1898.6	7.9	1914.2	11	1.6
Spot 163	1836407	1810534	100285.3	2.361	5.4	0.6	13.0	1.0	0.5	0.78	0.78768	2660.5	16.9	2676.9	9.3	2689.3	10	1.1
Spot 164	1512738	1491425	810341.2	2.063	5.4	0.6	13.0	0.9	0.5	0.75	0.80266	2668.1	16.5	2682.8	8.9	2693.9	9	1.0
Spot 165	600441	591982	#####	2.030	3.9	0.6	22.2	1.1	0.6	0.90	0.83649	3164.9	22.6	3190.7	10.5	3206.9	9	1.3
Spot 166	1428307	1408185	213809.8	1.759	7.6	0.5	7.0	1.0	0.4	0.82	0.84263	2124.2	14.9	2111.9	8.7	2099.9	9	-1.2
Spot 167	402018	396354	58461.4	1.737	7.3	0.7	7.6	1.2	0.4	1.02	0.84151	2210.2	19.1	2186.9	10.9	2165.2	11	-2.1
Spot 168	916519	903606	65979.4	2.341	7.6	0.7	7.3	1.0	0.4	0.76	0.74815	2183.0	14.1	2146.7	9.1	2112.1	12	-3.4
Spot 169	672705	663228	78024.1	0.916	7.5	0.7	7.4	1.2	0.4	1.04	0.83879	2195.2	19.4	2165.2	11.1	2137.0	12	-2.7
Spot 170	1510776	1489492	181175.3	1.461	7.2	0.7	7.6	1.2	0.4	0.98	0.82956	2161.8	18.0	2179.8	10.6	2196.7	11	1.6
Spot 171	578838	570683	64720.8	1.631	7.8	0.6	6.5	1.2	0.4	1.05	0.85063	2032.1	18.3	2044.1	10.9	2056.1	11	1.2
Spot 172	2461814	2427130	428988.9	2.257	5.3	0.7	13.2	1.3	0.5	1.08	0.82816	2668.0	23.7	2691.7	12.4	2709.5	12	1.5
Spot 173	454251	447852	185356.0	1.178	5.2	0.6	14.5	1.1	0.6	0.93	0.83956	2837.1	21.4	2786.1	10.5	2749.4	10	-3.2
Spot 174	1573337	1551171	468529.6	2.064	7.5	0.7	7.1	1.2	0.4	1.02	0.82576	2120.0	18.4	2124.5	11.0	2128.8	12	0.4
Spot 175	1591463	1569041	185450.3	1.898	5.3	0.6	13.2	1.2	0.5	0.99	0.85178	2657.2	21.5	2695.7	10.9	2724.6	10	2.5
Spot 176	1570889	1548757	113225.6	1.932	5.4	0.5	13.2	0.7	0.5	0.55	0.75441	2683.8	12.0	2690.6	6.8	2695.7	8	0.4
Spot 177	1550715	1528867	111679.0	2.168	5.3	0.6	13.0	1.2	0.5	0.99	0.84108	2635.1	21.4	2680.9	11.1	2715.6	11	3.0
Spot 178	674737	665231	120051.0	2.120	9.0	0.8	4.9	1.3	0.3	1.00	0.79576	1793.8	15.6	1796.5	10.5	1799.6	14	0.3
Spot 179	1208728	1191699	623008.9	3.300	7.5	0.8	7.3	1.2	0.4	0.86	0.72243	2168.6	15.9	2153.7	10.7	2139.4	14	-1.4
Spot 180	2598657	2562046	#####	3.358	4.8	0.7	15.8	1.3	0.6	1.12	0.85951	2838.9	25.6	2865.8	12.4	2884.7	11	1.6
Spot 181	620578	611835	72798.9	2.276	7.6	0.8	7.1	1.3	0.4	1.10	0.82151	2130.4	20.0	2122.6	12.0	2115.1	13	-0.7
Spot 182	618941	610221	63800.3	0.837	6.1	0.6	10.5	1.0	0.5	0.81	0.78752	2499.0	16.8	2483.6	9.6	2471.1	11	-1.1
Spot 183	2426323	2392139	#####	1.923	5.3	0.5	13.2	1.0	0.5	0.85	0.85411	2651.5	18.5	2690.5	9.4	2720.0	9	2.5
Spot 184	1991685	1963625	204925.5	2.160	3.5	0.6	27.2	1.0	0.7	0.86	0.84061	3378.5	22.5	3389.9	10.0	3396.6	9	0.5
Spot 185	1623389	1600518	492261.3	2.281	7.4	0.6	7.4	0.9	0.4	0.65	0.74894	2166.8	11.9	2155.6	7.7	2144.9	10	-1.0
Spot 186	452256	445884	118990.5	2.603	6.9	0.8	8.5	1.3	0.4	1.05	0.78270	2296.3	20.2	2285.7	12.2	2276.3	14	-0.9
Spot 187	942513	929234	106328.6	1.386	7.2	0.5	7.8	1.1	0.4	0.91	0.85661	2209.1	17.0	2209.0	9.6	2208.8	10	0.0
Spot 188	3898342	3843420	516765.3	1.465	7.4	0.6	7.0	1.0	0.4	0.79	0.77883	2075.1	14.0	2112.7	9.0	2149.4	11	3.5
Spot 189	284346	280340	186429.9	0.771	6.1	0.8	10.8	1.2	0.5	0.97	0.77920	2535.5	20.4	2505.7	11.6	2481.6	13	-2.2
Spot 190	1151228	1135009	284176.8	2.568	5.4	0.7	13.1	1.1	0.5	0.90	0.80234	2705.5	19.8	2690.4	10.6	2679.1	11	-1.0
Spot 191	972691	958987	125112.5	2.337	5.5	0.6	12.6	0.9	0.5	0.73	0.77391	2648.3	15.8	2653.5	8.8	2657.5	10	0.3
Spot 192	1247880	1230299	170937.4	1.069	7.5	0.7	6.9	1.1	0.4	0.86	0.79618	2051.4	15.2	2093.3	9.6	2134.7	11	3.9
Spot 193	420756	414828	67263.7	0.814	7.6	0.8	7.1	1.2	0.4	0.83	0.70318	2156.5	15.2	2130.0	10.5	2104.6	15	-2.5
Spot 194	1304240	1285865	711886.8	2.182	5.7	0.5	11.9	1.0	0.5	0.84	0.84018	2579.0	17.9	2598.7	9.4	2614.1	9	1.3

Spot 195	1209383	1192344	110456.0	1.421	7.6	0.7	6.9	1.1	0.4	0.85	0.78238	2090.3	15.1	2095.8	9.6	2101.1	12	0.5
Spot 196	510825	503629	23343.8	1.335	7.0	0.9	7.7	1.3	0.4	0.91	0.70893	2151.8	16.7	2196.1	11.6	2237.7	16	3.8
Spot 197	1586617	1564264	88072.5	1.763	8.5	0.8	5.5	1.2	0.3	0.87	0.74474	1894.7	14.3	1900.7	10.1	1907.2	14	0.7
Spot 198	926711	913655	114047.2	1.316	7.3	0.7	7.8	1.2	0.4	0.98	0.80519	2241.3	18.6	2212.0	11.0	2185.0	13	-2.6
Spot 199	1692567	1668721	354241.3	1.400	7.5	0.5	7.0	1.1	0.4	0.97	0.87127	2106.5	17.5	2116.3	9.9	2125.8	10	0.9
Spot 200	1180402	1163772	111442.2	1.546	7.5	0.7	7.2	1.2	0.4	0.98	0.82127	2138.2	17.9	2137.5	10.7	2136.8	12	-0.1
Spot 201	1127199	1111318	94888.5	1.686	7.5	0.6	7.1	1.2	0.4	0.99	0.85781	2122.8	18.0	2123.3	10.3	2123.8	10	0.0
Spot 202	904042	891306	110292.3	1.549	5.4	0.7	13.0	1.3	0.5	1.08	0.83656	2670.8	23.7	2679.9	12.2	2686.8	12	0.6
Spot 203	401245	395592	295710.3	3.568	7.4	0.8	7.4	1.3	0.4	1.09	0.81978	2167.4	20.0	2165.6	11.9	2163.9	13	-0.2
Spot 204	1556527	1534598	#####	1.073	7.5	0.5	7.2	0.8	0.4	0.66	0.79018	2142.4	12.0	2137.6	7.4	2133.0	9	-0.4
Spot 205	467089	460508	175100.3	1.978	5.3	0.7	13.3	1.1	0.5	0.86	0.78911	2681.4	19.0	2701.8	10.4	2717.1	11	1.3
Spot 206	1356588	1337475	340493.1	2.228	5.4	0.7	13.1	1.2	0.5	0.94	0.79534	2662.2	20.5	2686.1	11.1	2704.1	12	1.6
Spot 207	962051	948497	106228.7	4.460	7.0	0.7	8.2	1.3	0.4	1.04	0.82918	2246.9	19.7	2252.0	11.3	2256.5	12	0.4
Spot 208	758679	747990	86954.9	1.491	7.7	0.7	6.8	1.3	0.4	1.09	0.84270	2087.9	19.4	2086.3	11.4	2084.7	12	-0.2
Spot 209	1043404	1028704	371035.5	1.683	7.5	0.7	7.3	1.2	0.4	1.00	0.80121	2155.6	18.3	2148.9	11.1	2142.5	13	-0.6
Spot 210	1435802	1415574	858257.9	1.720	8.6	0.6	5.5	1.0	0.3	0.84	0.83442	1897.4	13.8	1896.1	8.6	1894.6	10	-0.1
Spot 211	1848920	1822871	#####	1.918	5.4	0.5	13.1	0.8	0.5	0.65	0.77013	2670.5	14.2	2689.0	7.9	2702.9	9	1.2
Spot 212	1220128	1202938	188032.7	2.605	5.3	0.5	13.0	1.0	0.5	0.83	0.83567	2645.3	18.1	2680.1	9.4	2706.4	9	2.3
Spot 213	2134686	2104611	135284.3	0.643	7.4	0.5	7.3	0.8	0.4	0.61	0.78127	2147.7	11.2	2151.9	7.0	2155.8	9	0.4
Spot 214	1280817	1262772	510550.4	1.407	8.6	0.5	5.5	1.0	0.3	0.86	0.86655	1906.9	14.2	1893.8	8.5	1879.4	9	-1.5
Spot 215	873031	860731	113760.4	3.268	7.4	0.6	7.5	1.0	0.4	0.79	0.80250	2186.1	14.7	2174.0	8.9	2162.7	10	-1.1
Spot 216	779882	768894	80555.1	2.177	7.5	0.8	7.1	1.4	0.4	1.07	0.78876	2118.4	19.2	2121.4	12.0	2124.4	15	0.3
Spot 217	465353	458797	68600.0	1.928	7.3	0.7	7.5	1.1	0.4	0.92	0.81358	2162.1	16.8	2170.9	10.1	2179.3	11	0.8
Spot 218	663502	654154	116469.3	2.459	6.9	0.8	8.2	1.4	0.4	1.17	0.82755	2228.1	22.1	2254.8	12.9	2279.1	14	2.2
Spot 219	748034	737495	94454.2	0.910	5.3	0.7	13.7	1.3	0.5	1.11	0.85080	2744.2	24.9	2731.1	12.4	2721.4	11	-0.8
Spot 220	1229669	1212345	969906.9	2.278	7.6	0.6	7.0	1.5	0.4	1.34	0.90388	2125.2	24.3	2114.9	13.2	2105.0	11	-1.0
Spot 221	687010	677331	99212.3	0.934	8.0	0.6	6.5	1.1	0.4	0.91	0.82742	2077.6	16.1	2052.3	9.7	2027.0	11	-2.5
Spot 222	955243	941785	91417.0	2.144	7.3	0.6	7.9	1.1	0.4	0.88	0.81797	2254.6	16.7	2220.6	9.7	2189.4	11	-3.0
Spot 223	1537964	1516296	#####	1.260	4.7	0.5	16.6	1.0	0.6	0.90	0.86687	2908.5	21.1	2914.6	10.0	2918.8	8	0.4
Spot 224	981713	967882	55003.9	2.279	7.6	0.8	7.0	1.5	0.4	1.26	0.83601	2106.9	22.7	2106.1	13.4	2105.3	15	-0.1
Spot 225	2636275	2599133	231829.7	1.357	7.2	0.6	7.6	1.2	0.4	0.96	0.83091	2170.7	17.6	2185.6	10.3	2199.6	11	1.3
Spot 226	679041	669474	65915.7	2.479	7.5	0.7	7.3	1.1	0.4	0.88	0.77060	2149.8	16.1	2145.1	10.2	2140.6	13	-0.4
Spot 227	1157684	1141374	95521.6	2.064	8.6	0.8	5.4	1.3	0.3	1.04	0.78765	1882.4	16.9	1888.0	11.3	1894.2	15	0.6
Spot 228	610664	602060	#####	1.833	8.1	0.7	6.2	1.2	0.4	0.99	0.80614	2001.2	17.0	2001.1	10.7	2001.0	13	0.0
Spot 229	1175319	1158760	102465.1	1.554	8.6	0.7	5.4	1.3	0.3	1.06	0.84174	1902.0	17.5	1891.9	10.8	1880.7	12	-1.1
Spot 230	1609098	1586428	445388.4	1.880	8.6	0.7	5.4	1.1	0.3	0.90	0.81058	1878.1	14.7	1889.0	9.5	1900.9	12	1.2
Spot 231	984347	970479	#####	2.160	7.4	0.7	7.4	1.2	0.4	0.94	0.79538	2153.8	17.2	2156.7	10.6	2159.3	12	0.3
Spot 232	1398452	1378750	87589.0	1.699	7.5	0.6	7.2	1.1	0.4	0.95	0.84704	2120.2	17.1	2132.1	10.0	2143.6	10	1.1
Spot 233	2878751	2838193	205865.9	1.577	7.5	0.7	7.0	1.2	0.4	0.99	0.83005	2096.3	17.8	2117.6	10.7	2138.4	12	2.0
Spot 234	1405126	1385330	105047.9	1.701	6.1	0.7	10.3	1.3	0.5	1.08	0.83117	2440.8	22.0	2463.5	12.1	2482.3	12	1.7
Spot 235	1066865	1051835	73713.1	1.773	7.6	0.8	7.0	1.2	0.4	0.91	0.75047	2112.7	16.5	2109.0	10.8	2105.3	14	-0.3
Spot 236	383421	378019	90688.7	1.759	7.7	0.6	6.8	1.2	0.4	0.98	0.83291	2076.9	17.3	2086.9	10.4	2096.8	11	0.9
Spot 237	1187465	1170735	143428.0	2.663	5.3	0.7	13.1	1.0	0.5	0.77	0.74618	2646.3	16.7	2684.3	9.7	2713.0	11	2.5

Spot 238	2890591	2849867	262137.7	3.019	7.6	0.7	7.0	1.4	0.4	1.14	0.83789	2114.2	20.6	2115.1	12.1	2115.8	13	0.1
Spot 239	370341	365123	36261.1	2.230	6.3	0.8	9.9	1.3	0.5	0.96	0.76015	2420.6	19.4	2421.1	11.7	2421.5	14	0.0
Spot 240	1406172	1386361	130296.6	1.770	7.3	0.8	7.5	1.2	0.4	0.94	0.76045	2155.0	17.2	2167.6	11.1	2179.6	14	1.1
Spot 241	769307	758469	#####	1.035	8.0	0.8	6.4	1.5	0.4	1.19	0.81712	2039.1	20.7	2032.8	12.7	2026.4	15	-0.6
Spot 242	1755057	1730331	171115.8	1.980	7.7	0.6	6.9	1.3	0.4	1.08	0.85793	2089.3	19.3	2092.5	11.2	2095.7	11	0.3
Spot 243	1135730	1119729	267671.0	2.653	5.3	0.6	13.7	0.9	0.5	0.73	0.77854	2739.2	16.4	2730.1	8.9	2723.3	10	-0.6
Spot 244	486582	479727	49972.3	1.790	6.0	0.6	10.8	0.8	0.5	0.62	0.74118	2509.5	13.0	2507.3	7.8	2505.6	9	-0.2
Spot 245	1043421	1028721	207404.2	1.482	7.6	0.6	7.0	0.9	0.4	0.76	0.80024	2105.5	13.6	2110.3	8.4	2114.8	10	0.4
Spot 246	1777381	1752340	164267.0	0.937	7.6	0.5	7.1	0.9	0.4	0.66	0.77461	2131.0	12.0	2124.0	7.6	2117.2	9	-0.7
Spot 247	985279	971398	#####	1.824	5.4	0.6	12.8	1.1	0.5	0.87	0.80773	2634.5	18.8	2663.0	10.1	2684.6	10	1.9
Spot 248	733261	722931	68312.0	1.107	7.5	0.7	7.2	1.3	0.4	1.01	0.80423	2140.0	18.4	2136.0	11.2	2132.1	13	-0.4
Spot 249	277561	273651	72512.9	2.364	7.2	0.8	7.9	1.3	0.4	1.05	0.79705	2225.1	19.7	2215.0	11.8	2205.6	14	-0.9
Spot 250	439324	433135	172061.7	1.853	7.3	0.7	7.5	1.2	0.4	0.91	0.77987	2158.5	16.7	2173.4	10.5	2187.6	13	1.3
Spot 251	571431	563380	107659.3	1.781	6.7	0.7	9.0	1.2	0.4	1.00	0.83103	2340.6	19.6	2341.5	11.0	2342.2	11	0.1
Spot 252	352870	347898	24537.8	2.163	7.2	0.6	8.0	1.1	0.4	0.91	0.82413	2260.2	17.4	2227.8	10.0	2198.1	11	-2.8
Spot 253	716567	706472	91106.6	2.138	7.8	0.8	6.8	1.2	0.4	0.91	0.73479	2087.5	16.2	2080.4	11.0	2073.2	15	-0.7
Spot 254	1707063	1683013	133585.5	2.062	5.4	0.5	13.0	0.8	0.5	0.63	0.81148	2638.0	13.6	2676.2	7.3	2705.2	7	2.5
Spot 255	1379444	1360010	74407.8	2.527	7.3	0.8	7.3	1.3	0.4	1.04	0.78177	2105.8	18.7	2143.0	11.9	2178.9	14	3.4
Spot 256	957585	944094	90704.7	3.220	5.0	0.6	14.8	1.0	0.5	0.80	0.81530	2802.5	18.1	2805.6	9.3	2807.8	9	0.2
Spot 257	1105947	1090366	89781.7	2.454	7.3	0.7	7.4	1.1	0.4	0.93	0.80778	2158.3	17.0	2165.1	10.3	2171.5	12	0.6
Spot 258	2000235	1972054	338965.5	2.957	5.4	0.7	13.3	1.1	0.5	0.89	0.79981	2697.6	19.5	2699.2	10.5	2700.4	11	0.1
Spot 259	557467	549613	#####	2.311	5.8	0.7	11.3	1.1	0.5	0.88	0.76931	2529.2	18.4	2549.0	10.6	2564.8	12	1.4
Spot 260	1207578	1190565	221939.3	1.254	5.4	0.6	12.7	1.1	0.5	0.93	0.82096	2609.3	20.0	2659.7	10.7	2698.3	11	3.3
Spot 261	971145	957463	142016.9	3.557	8.1	0.6	6.3	1.1	0.4	0.92	0.82906	2031.1	16.0	2012.2	9.7	1992.8	11	-1.9
Spot 263	720292	710144	41248.2	1.901	7.4	0.9	7.5	1.5	0.4	1.25	0.81746	2169.3	23.0	2167.2	13.7	2165.2	15	-0.2
Spot 265	1169715	1153235	574318.1	2.384	5.5	0.6	12.7	1.2	0.5	1.06	0.86939	2644.0	23.0	2655.6	11.5	2664.5	10	0.8
Spot 266	2039268	2010538	543114.9	1.652	7.6	0.5	7.1	1.3	0.4	1.21	0.91064	2126.9	21.9	2120.4	11.8	2114.1	10	-0.6
Spot 267	1627258	1604332	94455.2	2.270	5.4	0.6	13.1	1.0	0.5	0.78	0.81435	2667.7	17.0	2689.5	9.0	2705.9	9	1.4
Spot 268	614026	605376	131699.8	3.022	7.4	0.8	7.4	1.2	0.4	0.91	0.76504	2169.1	16.7	2164.7	10.6	2160.5	13	-0.4
Spot 269	891833	879268	61016.2	0.988	7.4	0.6	7.2	1.0	0.4	0.77	0.78814	2121.8	14.0	2139.7	8.8	2156.9	11	1.6
Spot 270	1890817	1864178	187253.2	2.814	7.6	0.5	7.0	0.9	0.4	0.71	0.83061	2108.9	12.7	2107.0	7.6	2105.1	8	-0.2
Spot 271	531276	523791	#####	1.933	3.8	0.8	23.8	1.3	0.7	1.09	0.81323	3248.9	27.8	3260.5	13.0	3267.6	12	0.6
Spot 272	744228	733743	162852.0	1.648	7.4	0.7	7.4	1.5	0.4	1.28	0.87333	2158.0	23.5	2158.3	13.1	2158.6	12	0.0
Spot 273	1292679	1274467	371751.3	2.024	8.6	0.7	5.4	1.0	0.3	0.78	0.75364	1889.6	12.8	1892.1	8.9	1894.8	12	0.3
Spot 274	1239851	1222383	158219.8	1.868	7.6	0.6	7.1	1.0	0.4	0.85	0.82028	2148.8	15.6	2130.1	9.3	2112.0	10	-1.7
Spot 275	469768	463150	38505.2	3.709	7.5	0.7	7.3	1.1	0.4	0.84	0.75147	2180.4	15.5	2154.5	10.0	2130.0	13	-2.4
Spot 276	659347	650058	56386.6	2.053	7.2	0.8	7.7	1.1	0.4	0.81	0.72752	2195.9	15.0	2199.4	10.0	2202.6	13	0.3
Spot 277	1036129	1021531	263783.9	2.041	7.4	0.6	7.2	1.0	0.4	0.82	0.80624	2129.9	14.8	2140.2	9.0	2150.0	10	0.9
Spot 278	1169268	1152794	448434.3	1.263	7.2	0.6	7.8	1.0	0.4	0.83	0.80315	2224.8	15.6	2213.6	9.3	2203.3	11	-1.0
Spot 279	457081	450641	92999.8	1.837	5.7	0.7	12.0	1.1	0.5	0.86	0.77559	2607.6	18.4	2608.2	10.4	2608.7	12	0.0
Spot 280	2144586	2114372	244035.1	1.781	8.5	0.6	5.6	1.0	0.3	0.79	0.81697	1899.6	13.0	1910.4	8.3	1922.0	10	1.2
Spot 281	943334	930043	99019.1	1.342	8.6	0.7	5.6	1.1	0.3	0.83	0.76713	1933.8	13.9	1915.8	9.3	1896.4	12	-2.0
Spot 282	482591	475792	46130.4	1.070	8.5	0.7	5.4	1.2	0.3	0.93	0.78738	1850.8	15.0	1877.4	10.1	1906.8	13	2.9

Spot 283	1244942	1227403	313296.3	0.983	7.6	0.7	6.9	1.1	0.4	0.80	0.75654	2088.7	14.3	2102.4	9.4	2115.8	12	1.3
Spot 284	1839379	1813465	105647.1	2.133	8.4	0.6	5.7	1.1	0.3	0.94	0.85805	1931.9	15.7	1936.7	9.5	1941.9	10	0.5
Spot 285	470352	463725	102668.9	1.636	5.6	0.8	12.4	1.3	0.5	0.97	0.77486	2634.7	21.0	2632.9	11.8	2631.4	13	-0.1
Spot 286	1062638	1047667	181958.9	3.212	7.4	0.7	7.3	1.0	0.4	0.73	0.70469	2133.7	13.3	2147.8	9.3	2161.2	13	1.3
Spot 287	1057476	1042577	105049.9	1.943	5.5	0.5	13.1	0.9	0.5	0.75	0.82172	2694.8	16.5	2685.7	8.6	2678.8	9	-0.6
Spot 288	783055	772023	149831.5	2.186	7.6	0.8	7.1	1.1	0.4	0.79	0.70419	2132.8	14.3	2118.5	9.9	2104.6	14	-1.3
Spot 289	646531	637423	250559.4	0.710	5.4	0.6	13.2	1.1	0.5	0.90	0.83993	2696.4	19.8	2696.8	10.1	2697.1	10	0.0
Spot 290	530652	523176	215083.0	1.342	8.2	0.8	6.0	1.1	0.4	0.79	0.71620	1968.3	13.3	1972.0	9.5	1975.9	14	0.4
Spot 291	2022786	1994288	453498.3	1.983	5.4	0.7	12.9	1.3	0.5	1.12	0.85597	2629.8	24.2	2668.9	12.4	2698.6	11	2.5
Spot 292	533795	526275	52939.1	2.672	7.6	0.6	6.8	1.3	0.4	1.10	0.86915	2061.4	19.4	2085.5	11.2	2109.5	11	2.3
Spot 293	971198	957515	135711.3	2.587	8.6	0.6	5.7	1.2	0.4	0.96	0.82967	1961.4	16.2	1931.5	10.0	1899.7	12	-3.2
Spot 294	923271	910263	89078.4	1.618	7.3	0.7	7.8	1.1	0.4	0.87	0.78296	2225.1	16.4	2202.7	10.0	2182.0	12	-2.0
Spot 295	1780362	1755279	335368.4	2.260	5.8	0.5	11.5	0.9	0.5	0.79	0.84588	2541.2	16.5	2566.5	8.7	2586.5	8	1.8
Spot 296	1427154	1407048	194629.8	2.590	5.4	0.6	13.3	1.1	0.5	0.95	0.85115	2687.7	20.9	2698.6	10.5	2706.8	10	0.7
Spot 297	3069743	3026495	469133.8	2.060	7.4	0.5	7.1	1.2	0.4	1.05	0.88619	2103.7	18.9	2129.0	10.6	2153.5	10	2.3
Spot 298	570855	562813	79162.1	0.838	5.3	0.7	13.2	1.2	0.5	0.94	0.81141	2665.6	20.5	2692.7	10.9	2713.1	11	1.7
Spot 299	2145285	2115061	641937.5	2.069	8.5	0.6	5.5	1.0	0.3	0.83	0.82120	1895.2	13.6	1900.9	8.6	1907.1	10	0.6
Spot 300	1552907	1531029	128779.6	1.918	8.5	0.5	5.5	0.9	0.3	0.71	0.83031	1882.6	11.6	1893.3	7.3	1905.0	9	1.2
Spot 301	1134403	1118421	102225.5	2.092	7.6	0.6	7.1	1.1	0.4	0.89	0.83079	2124.4	16.2	2118.5	9.6	2112.7	11	-0.6
Spot 302	791000	779856	104727.7	2.284	5.4	0.8	13.4	1.3	0.5	0.98	0.76927	2722.8	21.9	2707.2	12.1	2695.5	14	-1.0
Spot 303	1492252	1471229	#####	1.167	7.8	0.6	6.5	1.2	0.4	1.05	0.87002	2033.4	18.4	2047.7	10.7	2062.0	11	1.4
Spot 304	611215	602604	42072.4	1.854	7.3	0.7	7.7	1.1	0.4	0.89	0.78914	2219.2	16.7	2202.1	10.2	2186.2	12	-1.5
Spot 305	832130	820407	69387.9	0.740	5.7	0.5	11.7	0.9	0.5	0.68	0.79983	2559.4	14.4	2581.9	8.0	2599.6	9	1.5
Spot 306	117199	115548	20336.9	0.999	6.1	0.9	10.6	1.3	0.5	1.02	0.75461	2500.3	21.1	2491.5	12.5	2484.2	15	-0.6
Spot 307	1520700	1499276	139192.3	1.570	7.2	0.6	7.7	1.2	0.4	1.03	0.85835	2188.7	19.1	2196.1	10.8	2203.1	11	0.7
Spot 308	1141215	1125137	516943.2	0.750	5.4	0.7	13.3	1.3	0.5	1.06	0.84011	2707.8	23.4	2700.0	11.9	2694.2	11	-0.5
Spot 309	1145891	1129747	237737.4	2.217	5.4	0.7	12.9	1.1	0.5	0.80	0.75570	2651.6	17.3	2675.9	9.9	2694.4	11	1.6
Spot 310	1194430	1177602	273115.2	0.499	6.1	0.5	10.6	0.9	0.5	0.75	0.82420	2494.0	15.5	2488.2	8.4	2483.5	9	-0.4
Spot 311	1038432	1023802	#####	1.717	8.6	0.6	5.5	1.0	0.3	0.72	0.75126	1895.9	11.8	1895.2	8.2	1894.3	11	-0.1
Spot 312	526298	518883	283402.7	1.485	7.4	0.6	7.2	1.0	0.4	0.81	0.78739	2119.3	14.6	2137.1	9.1	2154.2	11	1.6
Spot 313	1133630	1117659	154734.5	1.691	7.6	0.5	7.1	1.0	0.4	0.83	0.86456	2131.4	15.1	2123.2	8.6	2115.3	8	-0.8
Spot 314	611509	602894	24122.2	1.072	7.3	0.9	7.4	1.3	0.4	0.93	0.70917	2156.8	17.1	2164.6	11.8	2172.0	16	0.7
Spot 315	795137	783935	110893.7	1.158	6.0	0.6	11.2	1.2	0.5	1.04	0.86524	2555.5	21.9	2543.8	11.2	2534.6	10	-0.8

Run 1 (discordant Nov. 2021)

Spot 262	301603	297354	31107.5	2.707	7.7	0.9	7.9	1.4	0.4	1.07	0.76606	2339.5	21.1	2215.0	12.6	2101.8	16	-11.3
Spot 264	596700	588293	1625.7	1.804	3.2	1.7	32.5	1.9	0.8	0.86	0.44472	3644.3	24.1	3564.1	19.1	3519.3	27	-3.6

Run 2 (Nov.)

Spot 9	1042345	1103536	106097.0	2.417	7.5	0.8	7.4	1.4	0.4	1.19	0.84504	2185.4	22.1	2156.5	12.6	2129.1	13	-2.6
Spot 31	1066484	1129091	101376.9	1.570	7.2	0.7	7.9	1.1	0.4	0.93	0.81465	2257.4	17.7	2224.5	10.3	2194.3	11	-2.9
Spot 46	540149	571858	39802.8	2.058	7.6	0.6	6.8	1.1	0.4	0.88	0.81348	2072.1	15.6	2084.8	9.6	2097.4	11	1.2
Spot 49	491231	520068	31087.3	2.066	7.3	0.8	7.3	1.3	0.4	0.99	0.76424	2124.4	17.8	2145.9	11.5	2166.4	15	1.9
Spot 50	548803	581020	35726.1	1.621	8.3	0.8	5.8	1.4	0.4	1.18	0.81703	1943.8	19.7	1940.7	12.4	1937.4	15	-0.3
Spot 51	514925	545153	30305.5	1.604	7.2	0.6	7.3	1.1	0.4	0.89	0.83542	2127.5	16.1	2153.4	9.5	2178.2	10	2.3

Spot 53	1692700	1792070	94985.5	1.583	7.3	0.7	7.3	1.3	0.4	1.13	0.85120	2116.8	20.4	2144.8	11.9	2171.6	12	2.5
Spot 66	1333105	1411365	98874.4	1.773	7.6	0.8	6.9	1.6	0.4	1.39	0.87842	2110.2	25.1	2100.9	14.1	2091.8	13	-0.9
Spot 68	1214219	1285500	233898.2	2.411	5.3	0.8	13.1	1.2	0.5	0.93	0.77788	2672.1	20.4	2688.7	11.3	2701.3	12	1.1
Spot 72	1009393	1068649	287960.7	1.663	7.5	0.5	7.5	0.8	0.4	0.65	0.80171	2214.1	12.3	2170.1	7.3	2128.7	9	-4.0
Spot 75	178778	189273	19523.9	2.798	6.8	1.0	8.4	1.4	0.4	0.99	0.70347	2256.0	18.8	2270.7	12.8	2284.0	17	1.2
Spot 79	255285	270272	52255.1	1.531	7.1	0.6	7.8	1.3	0.4	1.16	0.87277	2219.9	21.8	2212.4	12.0	2205.4	11	-0.7
Spot 84	1159328	1227386	96590.6	2.631	5.4	0.6	13.5	1.2	0.5	1.08	0.87081	2743.7	24.1	2714.6	11.7	2693.0	10	-1.9
Spot 86	683316	723429	94207.4	3.052	7.5	0.8	7.1	1.3	0.4	1.07	0.80464	2122.6	19.4	2126.9	11.9	2131.1	14	0.4
Spot 87	1625553	1720981	140554.4	1.565	8.5	0.4	5.6	0.6	0.3	0.49	0.81240	1922.8	8.2	1909.5	5.2	1895.1	6	-1.5
Spot 92	935943	990887	150070.0	1.055	5.0	0.6	14.7	1.1	0.5	0.90	0.82722	2768.6	20.2	2799.2	10.3	2821.2	10	1.9
Spot 93	1742848	1845161	992667.6	2.183	5.3	0.6	13.5	1.1	0.5	0.94	0.84939	2714.2	20.9	2711.9	10.5	2710.2	10	-0.1
Spot 111	1954261	2068985	#####	2.205	7.6	0.6	7.2	1.0	0.4	0.81	0.79029	2155.5	14.8	2133.8	9.1	2113.0	11	-2.0
Spot 112	891846	944202	68574.6	3.495	7.3	0.7	7.4	1.3	0.4	1.11	0.83776	2163.2	20.3	2162.0	11.8	2160.9	13	-0.1
Spot 113	1014892	1074471	555166.9	1.482	7.6	0.6	7.0	1.2	0.4	0.99	0.84945	2125.1	18.0	2114.9	10.4	2105.0	11	-1.0
Spot 114	998029	1056618	130028.9	3.810	7.4	0.7	7.0	1.2	0.4	1.01	0.82448	2074.7	17.9	2106.5	10.9	2137.7	12	2.9
Spot 115	287570	304452	88177.6	0.837	5.1	0.9	14.2	1.6	0.5	1.30	0.81790	2732.6	28.9	2761.2	15.1	2782.3	15	1.8
Spot 117	1354635	1434159	224977.5	1.534	7.7	0.6	6.8	1.1	0.4	0.94	0.84385	2081.0	16.7	2082.6	9.9	2084.2	11	0.2
Spot 129	632729	669873	#####	3.573	7.4	0.8	7.3	1.7	0.4	1.45	0.87110	2147.5	26.5	2145.3	14.9	2143.2	14	-0.2
Spot 130	505562	535241	28706.1	1.117	7.4	1.0	7.3	1.4	0.4	1.04	0.72973	2178.2	19.1	2154.1	12.7	2131.2	17	-2.2
Spot 131	910938	964414	91346.3	1.916	7.6	0.6	7.0	1.1	0.4	0.96	0.84733	2107.0	17.2	2105.3	10.0	2103.7	11	-0.2
Spot 133	1308205	1385003	203494.7	1.514	7.3	0.4	7.8	0.9	0.4	0.80	0.87440	2239.8	15.2	2203.7	8.3	2170.3	8	-3.2
Spot 134	1020771	1080696	#####	2.395	7.5	0.6	7.1	1.1	0.4	0.92	0.82172	2138.7	16.8	2128.7	10.0	2119.0	11	-0.9
Spot 135	808686	856159	99446.5	0.897	5.3	0.7	13.0	1.2	0.5	0.92	0.79972	2629.8	19.9	2676.2	10.9	2711.4	11	3.0
Spot 137	644396	682225	39649.4	1.778	8.4	0.9	5.7	1.3	0.4	0.96	0.71064	1935.4	16.0	1926.5	11.6	1916.9	17	-1.0
Spot 138	588241	622773	22382.6	2.034	8.2	1.2	6.1	1.4	0.4	0.87	0.60185	2019.6	15.1	1983.9	12.6	1946.9	21	-3.7
Spot 139	380173	402492	77561.0	0.790	5.1	0.8	14.6	1.4	0.5	1.10	0.79780	2785.8	24.8	2787.2	13.1	2788.2	14	0.1
Spot 147	1673105	1771325	443110.5	2.203	5.5	0.5	13.0	0.9	0.5	0.70	0.79592	2695.3	15.5	2676.3	8.3	2661.9	9	-1.3
Spot 148	1771141	1875116	160010.6	1.729	4.7	0.4	16.6	0.8	0.6	0.71	0.88088	2914.0	16.6	2911.3	7.7	2909.4	6	-0.2
Spot 152	426139	451155	109985.5	3.581	7.5	0.9	6.9	1.4	0.4	1.08	0.76941	2094.6	19.4	2103.6	12.5	2112.3	16	0.8
Spot 153	762745	807522	118848.5	2.227	5.4	0.7	13.1	1.3	0.5	1.11	0.83843	2713.5	24.7	2688.7	12.5	2670.0	12	-1.6
Spot 156	557610	590345	150594.5	1.463	5.3	0.8	13.4	1.3	0.5	1.06	0.81218	2700.0	23.5	2707.0	12.4	2712.2	13	0.5
Spot 160	1458910	1544555	210612.2	1.561	7.6	0.5	6.9	1.0	0.4	0.83	0.84134	2101.5	14.9	2103.0	8.7	2104.5	9	0.1
Spot 161	2061096	2182092	347289.2	1.130	7.5	0.5	7.1	1.0	0.4	0.82	0.83656	2112.4	14.8	2122.3	8.7	2132.0	9	0.9
Spot 162	1609944	1704455	828170.2	2.120	8.5	0.7	5.6	1.0	0.4	0.75	0.74419	1937.5	12.5	1917.1	8.7	1895.1	12	-2.2
Spot 166	584259	618558	152212.6	2.033	7.6	0.6	7.2	1.0	0.4	0.82	0.78550	2174.3	15.1	2140.6	9.3	2108.4	11	-3.1
Spot 167	1169284	1237927	216746.4	1.116	4.9	0.6	15.7	1.1	0.6	0.86	0.80467	2867.7	19.9	2859.9	10.2	2854.4	10	-0.5
Spot 168	1136516	1203235	331954.2	2.026	7.4	0.6	7.5	0.9	0.4	0.69	0.77796	2207.3	12.9	2178.6	8.0	2151.7	10	-2.6
Spot 170	1071992	1134923	54971.1	2.202	5.4	0.8	13.4	1.4	0.5	1.20	0.83170	2746.8	26.7	2705.1	13.6	2674.1	13	-2.7
Spot 174	987073	1045019	92094.3	2.119	5.3	0.5	13.0	1.2	0.5	1.05	0.89360	2666.1	22.9	2682.2	11.1	2694.4	9	1.0
Spot 175	1131289	1197701	260871.9	1.526	5.4	0.7	13.1	1.4	0.5	1.21	0.88087	2694.5	26.7	2688.8	13.0	2684.6	11	-0.4
Spot 179	1174786	1243752	120814.2	2.108	5.4	0.5	13.6	1.0	0.5	0.82	0.84750	2772.4	18.6	2720.6	9.2	2682.3	9	-3.4
Spot 181	868458	919441	55305.5	2.249	7.4	0.8	7.4	1.4	0.4	1.07	0.79467	2175.5	19.8	2155.1	12.1	2135.8	14	-1.9
Spot 182	1425122	1508784	366920.0	1.403	7.7	0.7	6.8	1.1	0.4	0.85	0.77173	2089.8	15.2	2088.0	9.8	2086.3	12	-0.2

Spot 186	380109	402424	33237.4	1.447	7.1	1.0	7.7	1.6	0.4	1.23	0.78479	2176.7	22.8	2194.2	14.1	2210.5	17	1.5
Spot 188	672019	711470	93047.6	1.993	4.5	0.6	18.0	1.0	0.6	0.84	0.80498	3027.6	20.4	2990.0	10.1	2964.8	10	-2.1
Spot 189	335741	355450	115225.7	2.163	7.8	0.9	6.4	1.6	0.4	1.32	0.83195	2017.4	22.8	2037.5	13.9	2057.8	16	2.0
Spot 190	148942	157686	39050.5	1.704	4.0	0.9	20.8	1.4	0.6	1.03	0.76056	3093.4	25.4	3130.1	13.2	3153.7	14	1.9
Spot 191	329471	348813	32047.0	4.185	7.5	1.0	7.3	1.5	0.4	1.18	0.76311	2197.6	21.9	2150.9	13.8	2106.6	18	-4.3
Spot 193	2525289	2673536	225695.4	1.588	7.5	0.5	6.7	1.0	0.4	0.89	0.87283	2042.3	15.5	2078.0	9.0	2113.5	9	3.4
Spot 196	1643014	1739467	268332.9	1.820	7.4	0.8	7.2	1.3	0.4	1.06	0.79961	2110.0	19.0	2130.8	11.8	2150.8	14	1.9
Spot 197	1360824	1440711	221403.0	2.152	5.5	0.5	12.3	0.9	0.5	0.75	0.80783	2596.7	15.9	2631.3	8.7	2658.0	9	2.3
Spot 198	615662	651805	109930.1	1.734	7.3	1.0	7.6	1.5	0.4	1.16	0.76197	2197.6	21.5	2179.9	13.6	2163.3	17	-1.6
Spot 200	1034931	1095686	269845.3	1.961	5.4	0.7	13.2	1.3	0.5	1.10	0.85573	2700.1	24.4	2693.2	12.2	2688.0	11	-0.5
Spot 201	1280123	1355273	229731.5	1.359	4.9	0.5	14.9	0.9	0.5	0.71	0.83610	2786.3	16.1	2808.3	8.1	2824.1	8	1.3
Spot 203	280811	297295	14871.5	2.750	7.6	1.0	6.9	1.5	0.4	1.01	0.68190	2123.9	18.3	2104.0	13.2	2084.6	19	-1.9
Spot 205	310933	329186	45828.7	1.078	7.6	0.9	6.6	1.6	0.4	1.29	0.80661	2040.9	22.6	2063.9	14.1	2086.9	17	2.2
Spot 217	736056	779266	87159.5	0.753	6.1	0.7	10.6	1.3	0.5	1.09	0.85491	2506.7	22.7	2488.6	11.9	2473.8	11	-1.3
Spot 219	823317	871650	258792.7	0.967	7.3	0.5	7.5	0.9	0.4	0.74	0.82641	2171.0	13.5	2174.1	8.0	2177.1	9	0.3
Spot 224	958809	1015096	678548.1	1.416	7.4	0.6	7.3	1.0	0.4	0.89	0.85025	2161.7	16.3	2152.6	9.3	2144.0	10	-0.8
Spot 226	1420202	1503575	153427.2	1.388	8.5	0.5	5.6	1.1	0.4	0.94	0.89108	1936.6	15.7	1917.7	9.1	1897.2	9	-2.1
Spot 227	254759	269714	21903.8	2.344	7.4	0.9	7.6	1.3	0.4	0.88	0.69841	2221.5	16.6	2182.2	11.3	2145.4	16	-3.5
Spot 232	1409676	1492431	201532.8	1.218	5.6	0.5	12.2	1.0	0.5	0.84	0.83781	2609.0	18.0	2617.7	9.4	2624.5	9	0.6
Spot 233	660957	699758	49602.3	3.599	7.5	0.8	7.2	1.5	0.4	1.27	0.85609	2163.4	23.4	2140.3	13.3	2118.2	13	-2.1
Spot 234	529261	560332	33273.2	2.902	6.9	0.6	8.3	1.0	0.4	0.86	0.82562	2261.2	16.3	2259.4	9.4	2257.8	10	-0.2
Spot 235	413762	438052	35721.1	1.611	7.3	0.8	7.1	1.4	0.4	1.20	0.84469	2072.2	21.3	2125.0	12.7	2176.5	13	4.8
Spot 236	686479	726778	45689.9	3.518	7.5	0.6	7.1	1.1	0.4	0.89	0.84536	2122.8	16.1	2125.7	9.4	2128.4	10	0.3
Spot 238	1437385	1521766	102270.6	2.162	7.4	0.7	7.4	1.4	0.4	1.24	0.88096	2166.2	22.9	2154.9	12.6	2144.2	12	-1.0
Spot 239	347637	368045	233685.0	0.926	5.2	0.8	13.9	1.5	0.5	1.30	0.84632	2733.4	29.0	2743.0	14.6	2750.1	13	0.6
Spot 241	1555017	1646304	136823.8	2.008	5.3	0.6	13.0	1.0	0.5	0.75	0.77326	2657.6	16.4	2681.7	9.2	2699.9	10	1.6
Spot 242	1481614	1568592	694138.2	2.092	5.3	0.7	13.1	1.1	0.5	0.87	0.80031	2653.5	18.9	2688.9	10.2	2715.6	11	2.3
Spot 251	581699	615848	71635.0	2.134	7.4	0.9	7.4	1.3	0.4	0.87	0.69142	2170.2	16.1	2159.2	11.3	2148.7	16	-1.0
Spot 253	843079	892572	285495.7	0.888	7.4	0.6	7.3	1.2	0.4	1.03	0.85290	2159.2	18.8	2147.2	10.8	2135.8	11	-1.1
Spot 254	575857	609663	107893.5	1.028	7.9	0.9	6.6	1.3	0.4	0.90	0.71626	2086.2	16.1	2057.8	11.1	2029.5	16	-2.8
Spot 256	2510865	2658265	564209.1	0.773	7.5	0.9	6.9	1.5	0.4	1.20	0.79556	2073.3	21.3	2097.9	13.4	2122.0	16	2.3
Spot 257	1357050	1436716	127291.6	0.983	7.5	0.7	7.2	1.1	0.4	0.87	0.77306	2158.0	15.9	2140.8	10.0	2124.3	12	-1.6
Spot 258	577408	611305	91841.2	0.950	5.3	0.6	14.1	1.0	0.5	0.79	0.81291	2813.9	18.1	2756.1	9.3	2714.1	9	-3.7
Spot 260	189991	201144	14471.1	0.675	7.6	1.1	6.6	1.5	0.4	0.95	0.62864	2050.3	16.7	2064.4	13.3	2078.6	21	1.4
Spot 261	506010	535715	93938.5	1.814	7.2	0.9	7.7	1.5	0.4	1.20	0.80896	2198.3	22.4	2194.5	13.3	2190.9	15	-0.3
Spot 262	966366	1023096	84477.5	0.804	7.9	0.6	6.5	1.6	0.4	1.44	0.91574	2040.1	25.2	2040.2	13.9	2040.4	11	0.0
Spot 263	1358911	1438686	95319.9	2.283	5.2	0.9	13.4	1.6	0.5	1.32	0.83090	2685.3	29.0	2709.4	15.0	2727.4	15	1.5
Spot 264	1396727	1478722	114232.6	2.136	5.0	0.7	14.5	1.1	0.5	0.93	0.81950	2757.3	20.9	2780.6	10.8	2797.5	11	1.4
Spot 265	923816	978048	89398.8	1.954	5.5	0.6	13.0	0.9	0.5	0.64	0.74738	2703.5	14.2	2677.9	8.1	2658.6	9	-1.7
Spot 267	1096495	1160864	151789.4	2.052	5.4	0.4	13.1	0.8	0.5	0.68	0.85052	2683.0	14.9	2684.8	7.5	2686.2	7	0.1
Spot 268	873253	924517	122016.3	2.015	5.4	0.4	13.6	0.8	0.5	0.71	0.85372	2754.1	16.0	2720.0	7.9	2694.8	7	-2.2
Spot 269	812521	860220	260562.4	2.331	5.1	0.6	14.7	1.2	0.6	1.06	0.87279	2835.4	24.4	2798.5	11.6	2771.9	10	-2.3
Spot 270	1385256	1466578	254832.5	2.026	5.4	0.5	13.3	0.8	0.5	0.66	0.81578	2717.3	14.6	2703.7	7.6	2693.5	8	-0.9

Spot 271	1220750	1292414	140787.6	2.434	5.4	0.6	12.4	1.3	0.5	1.16	0.87486	2574.9	24.7	2635.9	12.5	2683.1	11	4.0
Spot 278	635620	672934	93833.2	2.999	7.5	0.8	7.0	1.5	0.4	1.32	0.85420	2102.4	23.6	2116.5	13.7	2130.3	14	1.3
Spot 280	1057873	1119976	80516.9	3.336	7.5	0.8	7.0	1.3	0.4	1.10	0.82597	2094.2	19.7	2107.4	11.8	2120.4	13	1.2
Spot 283	1466545	1552638	138929.3	1.404	3.8	0.7	22.5	1.2	0.6	0.98	0.83013	3142.1	24.3	3203.7	11.4	3242.5	10	3.1
Spot 284	1196455	1266693	90428.2	2.120	5.4	0.7	13.4	1.3	0.5	1.07	0.84563	2727.4	23.8	2706.4	12.0	2690.8	11	-1.4
Spot 286	981858	1039498	70265.7	2.862	7.6	1.1	7.2	1.7	0.4	1.33	0.77410	2188.4	24.6	2137.6	15.3	2089.1	19	-4.8
Spot 288	436711	462348	441759.9	1.620	7.6	0.6	7.1	1.0	0.4	0.82	0.82178	2139.6	14.8	2123.0	8.8	2107.1	10	-1.5
Spot 289	1607864	1702253	909599.6	1.064	3.5	0.3	26.4	0.7	0.7	0.62	0.87311	3339.2	16.3	3361.1	7.0	3374.2	5	1.0
Spot 290	2072994	2194689	223371.0	1.849	8.5	0.5	5.6	1.0	0.3	0.88	0.86136	1929.2	14.8	1912.5	8.8	1894.5	9	-1.8
Spot 291	2539858	2688960	304900.0	1.555	7.4	0.6	7.2	0.9	0.4	0.74	0.78232	2127.0	13.4	2137.3	8.4	2147.1	10	0.9
Spot 292	1313497	1390606	#####	2.233	5.9	0.7	10.8	1.4	0.5	1.15	0.84722	2473.5	23.6	2506.3	12.6	2532.9	12	2.3
Spot 293	817270	865248	57942.1	1.881	8.2	0.7	5.8	1.3	0.4	1.10	0.83035	1937.2	18.3	1950.1	11.4	1963.7	13	1.3
Spot 297	1483460	1570546	98585.4	0.954	7.8	0.4	6.5	0.8	0.4	0.76	0.90324	2042.7	13.3	2043.7	7.4	2044.6	6	0.1
Spot 298	947589	1003217	72769.2	1.538	8.4	0.7	5.7	1.1	0.4	0.91	0.79348	1950.3	15.2	1930.9	9.9	1910.1	12	-2.1
Spot 299	890460	942734	277878.0	2.193	5.5	0.8	12.7	1.4	0.5	1.14	0.83402	2663.2	24.8	2656.9	12.8	2652.1	12	-0.4
Spot 300	824000	872372	43410.4	2.580	7.5	0.5	7.4	0.8	0.4	0.59	0.77739	2198.6	11.0	2156.2	6.8	2116.0	8	-3.9
Spot 302	345143	365404	31144.7	1.659	5.3	0.7	13.1	1.1	0.5	0.85	0.77222	2679.0	18.7	2688.8	10.4	2696.2	12	0.6
Spot 308	1516163	1605169	102689.5	1.627	8.6	0.8	5.4	1.2	0.3	0.91	0.76014	1879.4	14.9	1880.7	10.3	1882.2	14	0.1
Spot 310	409062	433076	48499.8	2.162	7.3	0.6	7.5	1.1	0.4	0.95	0.82538	2189.5	17.6	2175.5	10.3	2162.4	11	-1.3
Spot 311	1585843	1678940	138639.3	1.968	5.8	0.6	11.1	0.9	0.5	0.72	0.76333	2506.9	14.9	2531.9	8.8	2552.1	10	1.8
Spot 312	816158	864071	109425.0	2.195	5.5	0.7	12.3	1.3	0.5	1.12	0.85691	2623.0	24.0	2629.9	12.2	2635.2	11	0.5
Spot 314	1550340	1641352	156444.2	2.628	7.5	0.7	7.2	1.3	0.4	1.04	0.81161	2137.8	18.9	2134.5	11.4	2131.4	13	-0.3
Spot 315	1056780	1118818	143545.7	2.441	5.4	0.7	13.2	1.5	0.5	1.31	0.87200	2695.3	28.8	2694.5	14.1	2694.0	12	0.0

Run 2 Rora Med discordant (Nov. 2021)

Spot 132	661566	700403	108601.0	0.872	8.0	0.6	6.8	1.1	0.4	0.86	0.80133	2158.3	15.7	2088.2	9.5	2019.8	11	-6.9
Spot 136	9158	9696	3000.0	0.432	5.1	1.0	31.5	1.2	1.2	0.60	0.51448	4989.8	20.8	3535.1	11.5	2789.6	16	-78.9
Spot 252	662970	701890	59896.9	1.789	8.6	0.6	5.8	1.1	0.4	0.90	0.82815	2001.1	15.4	1947.2	9.4	1890.5	11	-5.9
Spot 309	926342	980723	179820.7	0.969	7.6	0.6	7.5	1.0	0.4	0.77	0.77551	2247.9	14.5	2178.9	8.9	2114.5	11	-6.3

Run 1 (Sept. 2022)

Erin-RMA	526676	436143	32881.2	2.082	7.1	0.5	8.0	0.8	0.4	0.57	0.72398	2243.9	10.9	2226.1	7.1	2209.8	9	-1.55
Erin-RMA	1380939	1143562	63966.3	2.164	5.3	0.4	13.2	0.7	0.5	0.56	0.80122	2682.5	12.2	2691.4	6.6	2698.0	7	0.57
Erin-RMA	350229	290026	23668.3	0.719	7.5	0.7	7.1	1.0	0.4	0.66	0.67747	2136.9	12.0	2126.7	8.7	2116.9	13	-0.94
Erin-RMA	1351274	1118996	57979.6	1.974	7.6	0.5	7.0	0.8	0.4	0.57	0.74801	2136.1	10.3	2115.9	6.7	2096.3	9	-1.9
Erin-RMA	407252	337247	120006.0	1.925	7.1	0.5	7.7	0.9	0.4	0.66	0.77193	2187.8	12.3	2199.8	7.7	2211.0	9	1.05
Erin-RMA	876407	725757	154142.2	1.055	5.6	0.5	12.4	0.8	0.5	0.61	0.75219	2643.9	13.3	2634.4	7.7	2627.1	9	-0.64
Erin-RMA	60679	50248	23687.8	3.533	7.0	1.2	7.3	1.6	0.4	0.99	0.62915	2046.4	17.3	2145.0	14.0	2240.8	21	8.67
Erin-RMA	223597	185162	37281.1	0.963	7.5	0.7	6.9	0.9	0.4	0.59	0.62210	2075.3	10.4	2092.7	8.4	2109.9	13	1.64
Erin-RMA	1357807	1124406	45984.0	2.018	6.0	0.4	10.7	0.8	0.5	0.61	0.80912	2474.3	12.6	2496.4	7.1	2514.4	8	1.59
Erin-RMA	781245	646953	119714.5	1.817	7.1	0.6	8.0	0.9	0.4	0.68	0.77850	2256.3	13.0	2233.0	7.9	2211.7	10	-2.01
Erin-RMA	570727	472621	179747.8	2.908	6.0	0.5	10.7	0.8	0.5	0.60	0.74864	2491.0	12.3	2494.0	7.4	2496.5	9	0.22
Erin-RMA	1358627	1125086	42251.5	2.295	7.3	0.5	7.6	0.8	0.4	0.58	0.73991	2199.8	10.8	2188.1	7.0	2177.2	9	-1.04
Erin-RMA	583332	483060	35853.9	2.550	7.4	0.7	7.2	1.0	0.4	0.75	0.74323	2142.8	13.7	2139.0	9.0	2135.3	12	-0.35
Erin-RMA	1339713	1109423	65450.9	2.184	5.3	0.4	13.3	0.8	0.5	0.67	0.85199	2694.5	14.8	2697.8	7.4	2700.2	7	0.21

Erin-RMA	1350490	1118347	56887.0	1.948	6.9	0.5	8.3	0.8	0.4	0.63	0.80257	2244.8	11.9	2259.2	7.1	2272.1	8	1.2
Erin-RMA	2000445	1656578	94154.2	2.176	5.3	0.4	13.2	0.7	0.5	0.58	0.82976	2680.5	12.8	2695.1	6.6	2706.0	6	0.94
Erin-RMA	492494	407837	101449.6	2.372	7.2	0.5	7.5	0.7	0.4	0.52	0.73738	2162.5	9.6	2178.0	6.4	2192.6	8	1.37
Erin-RMA	1663737	1377749	133277.5	1.315	7.6	0.5	7.0	0.8	0.4	0.61	0.75624	2130.2	11.0	2114.0	7.2	2098.3	9	-1.52
Erin-RMA	634271	525243	330801.6	2.054	7.3	0.5	7.6	0.8	0.4	0.61	0.76958	2207.8	11.4	2189.7	7.1	2172.8	9	-1.61
Erin-RMA	1405338	1163767	63190.1	1.768	5.0	0.4	15.2	0.7	0.6	0.58	0.84915	2845.5	13.3	2830.0	6.5	2819.0	6	-0.94
Erin-RMA	2010832	1665180	111243.9	2.209	5.3	0.4	13.2	0.7	0.5	0.60	0.84218	2691.1	13.1	2697.6	6.7	2702.4	6	0.42
Erin-RMA	984304	815107	66334.0	2.017	7.2	0.5	7.5	0.8	0.4	0.58	0.76011	2158.6	10.6	2174.5	6.8	2189.6	9	1.42
Erin-RMA	676897	560541	#####	1.718	7.3	0.5	7.6	0.8	0.4	0.64	0.78664	2197.5	11.9	2182.5	7.3	2168.4	9	-1.34
Erin-RMA	930899	770882	220135.1	1.524	7.3	0.5	7.5	0.7	0.4	0.55	0.74466	2171.2	10.2	2168.5	6.7	2165.8	9	-0.25
Erin-RMA	819122	678319	57280.2	1.666	7.4	0.5	7.4	0.9	0.4	0.73	0.83984	2181.0	13.5	2158.1	7.8	2136.4	8	-2.09
Erin-RMA	943417	781248	51775.8	5.137	7.6	0.6	7.1	1.1	0.4	0.88	0.82163	2146.3	16.0	2121.5	9.5	2097.5	11	-2.33
Erin-RMA	87740	72658	19386.3	1.186	7.5	1.3	7.2	1.8	0.4	1.15	0.64978	2167.8	21.2	2137.0	15.8	2107.6	24	-2.86
Erin-RMA	3330791	2758244	96211.2	1.043	7.1	0.4	7.7	0.7	0.4	0.59	0.84027	2194.4	11.0	2201.1	6.4	2207.4	7	0.59
Erin-RMA	594189	492051	31961.0	2.519	6.7	1.0	8.6	1.3	0.4	0.78	0.61142	2266.8	14.8	2296.0	11.6	2322.0	17	2.38
Erin-RMA	1389243	1150438	44776.3	2.057	8.5	0.6	5.5	0.9	0.3	0.65	0.75100	1919.6	10.7	1906.4	7.4	1892.1	10	-1.45
Erin-RMA	1272230	1053540	288690.1	3.738	5.3	0.5	12.5	0.7	0.5	0.57	0.76032	2546.8	12.0	2645.9	7.0	2722.7	8	6.46
Erin-RMA	278916	230971	57389.1	1.394	7.1	0.9	7.7	1.1	0.4	0.63	0.58179	2187.9	11.7	2201.2	9.7	2213.6	15	1.16
Erin-RMA	2206244	1827001	394493.4	1.414	7.6	0.4	7.0	0.7	0.4	0.56	0.79749	2112.5	10.0	2105.8	6.2	2099.2	7	-0.63
Erin-RMA	1682141	1392988	147307.3	2.867	8.5	0.5	5.5	0.9	0.3	0.71	0.82182	1904.2	11.6	1901.2	7.4	1897.9	9	-0.33
Erin-RMA	1025695	849383	58003.8	2.368	7.4	0.4	7.1	0.8	0.4	0.65	0.82292	2100.0	11.6	2123.4	7.0	2146.1	8	2.15
Erin-RMA	805543	667074	24759.2	1.919	7.4	0.5	7.3	0.9	0.4	0.72	0.82205	2142.1	13.2	2143.9	7.8	2145.6	9	0.16
Erin-RMA	963554	797924	27692.1	2.437	6.9	0.5	8.5	0.8	0.4	0.62	0.76765	2310.4	12.0	2287.4	7.3	2266.9	9	-1.92
Erin-RMA	657313	544324	51692.7	1.683	8.1	0.6	6.1	0.8	0.4	0.45	0.60472	1988.8	7.8	1986.7	6.5	1984.5	11	-0.22
Erin-RMA	1353156	1120554	103048.8	3.949	6.0	0.5	10.1	0.8	0.4	0.53	0.69985	2372.5	10.6	2448.0	7.1	2511.3	9	5.53
Erin-RMA	894147	740448	33846.1	1.886	7.6	0.6	6.9	0.9	0.4	0.66	0.75910	2095.0	11.8	2098.9	7.7	2102.7	10	0.37
Erin-RMA	1035914	857845	75330.4	2.526	6.8	0.3	8.6	0.6	0.4	0.46	0.79943	2296.7	8.9	2292.5	5.2	2288.8	6	-0.35
Erin-RMA	968068	801662	43094.8	0.516	4.7	0.4	16.3	0.8	0.6	0.65	0.85494	2894.0	15.2	2893.3	7.3	2892.8	6	-0.04
Erin-RMA	1695335	1403915	56887.4	4.796	7.5	0.5	7.3	0.7	0.4	0.54	0.76093	2158.9	9.9	2143.4	6.4	2128.5	8	-1.43
Erin-RMA	5302360	4390909	88432.6	9.635	7.4	0.4	7.0	1.0	0.4	0.94	0.90491	2082.3	16.8	2111.2	9.2	2139.6	8	2.68
Erin-RMA	540317	447439	42637.5	3.278	7.4	0.5	7.3	0.8	0.4	0.56	0.74406	2165.4	10.3	2149.1	6.7	2133.5	9	-1.5
Erin-RMA	2341055	1938638	102296.9	1.743	5.3	0.4	13.3	0.8	0.5	0.69	0.88897	2687.3	15.1	2702.3	7.3	2713.5	6	0.97
Erin-RMA	315845	261553	10836.4	2.047	7.4	0.6	7.0	0.9	0.4	0.56	0.63533	2105.0	10.1	2115.9	7.8	2126.6	12	1.02
Erin-RMA	591862	490124	86621.2	1.653	7.6	0.6	7.2	0.7	0.4	0.39	0.55864	2173.6	7.1	2133.9	6.2	2095.9	10	-3.71
Erin-RMA	238159	197220	5824.5	2.952	7.2	0.7	7.3	1.0	0.4	0.70	0.69517	2144.0	12.8	2153.3	9.0	2162.2	13	0.84
Erin-RMA	1277711	1058079	160784.9	2.206	7.5	0.5	7.0	0.9	0.4	0.72	0.81333	2100.0	12.9	2105.9	7.8	2111.6	9	0.55
Erin-RMA	878670	727630	#####	2.039	7.6	0.6	7.0	0.8	0.4	0.51	0.62448	2123.6	9.3	2108.9	7.3	2094.5	11	-1.39
Erin-RMA	608396	503816	64386.4	2.476	7.3	0.5	7.3	0.8	0.4	0.61	0.74862	2140.3	11.2	2151.6	7.3	2162.5	9	1.03
Erin-RMA	1573226	1302795	599457.1	1.633	8.5	0.4	5.5	0.7	0.3	0.54	0.78629	1893.6	8.9	1897.8	5.9	1902.3	8	0.46
Erin-RMA	2875128	2380907	113979.0	1.532	7.4	0.5	7.2	0.8	0.4	0.62	0.79245	2133.2	11.3	2138.4	7.0	2143.3	8	0.47
Erin-RMA	323630	267999	30524.1	1.964	7.2	0.7	7.8	1.0	0.4	0.67	0.68694	2226.6	12.5	2203.5	8.7	2182.0	12	-2.05
Erin-RMA	2404077	1990827	526214.1	1.101	7.6	0.5	6.9	0.8	0.4	0.67	0.80898	2079.2	11.8	2094.4	7.3	2109.4	8	1.43
Erin-RMA	1570077	1300188	76501.5	2.458	5.3	0.5	13.3	0.7	0.5	0.55	0.77102	2702.0	12.0	2703.3	6.7	2704.3	7	0.09

Erin-RMA	1277589	1057978	59019.9	0.957	7.5	0.5	7.0	0.7	0.4	0.51	0.71501	2109.7	9.1	2113.9	6.3	2118.0	9	0.4
Erin-RMA	1021406	845831	87931.7	1.530	7.4	0.4	7.4	0.8	0.4	0.63	0.82599	2162.3	11.6	2156.4	6.8	2150.8	8	-0.53
Erin-RMA	1148331	950938	52640.8	2.032	7.5	0.5	6.8	0.8	0.4	0.59	0.74411	2059.0	10.5	2087.7	7.1	2116.2	9	2.7
Erin-RMA	1426746	1181495	70412.6	1.205	5.0	0.5	14.7	0.8	0.5	0.62	0.76837	2789.3	14.1	2797.3	7.7	2803.0	8	0.49
Erin-RMA	1396371	1156341	470330.5	1.465	7.6	0.4	7.1	0.7	0.4	0.53	0.77472	2143.8	9.6	2126.3	6.1	2109.5	8	-1.63
Erin-RMA	1551029	1284415	184698.3	1.174	5.5	0.5	12.4	0.8	0.5	0.55	0.72693	2622.2	11.9	2633.5	7.1	2642.2	9	0.76
Erin-RMA	764423	633022	82759.9	1.941	7.3	0.5	7.4	0.8	0.4	0.57	0.73773	2146.5	10.4	2159.2	6.9	2171.2	9	1.14
Erin-RMA	607838	503353	58014.1	2.567	7.4	0.8	7.3	1.1	0.4	0.73	0.69549	2135.2	13.3	2147.5	9.4	2159.2	13	1.11
Erin-RMA	1824298	1510710	133354.6	2.241	5.3	0.5	13.3	0.8	0.5	0.65	0.80590	2692.7	14.3	2698.4	7.6	2702.7	8	0.37
Erin-RMA	179909	148984	91982.0	0.994	7.3	1.1	7.6	1.3	0.4	0.61	0.48611	2201.9	11.4	2184.2	11.3	2167.6	19	-1.59
Erin-RMA	940503	778835	36529.3	3.134	7.6	0.5	6.9	0.7	0.4	0.48	0.69535	2106.5	8.7	2098.7	6.2	2091.2	9	-0.73
Erin-RMA	911405	754739	#####	1.979	7.4	0.5	7.3	0.7	0.4	0.56	0.77255	2162.6	10.3	2152.3	6.5	2142.4	8	-0.94
Erin-RMA	1590581	1317167	364804.0	2.056	8.5	0.6	5.5	0.9	0.3	0.69	0.76319	1892.9	11.3	1903.0	7.8	1914.1	10	1.11
Erin-RMA	698012	578027	59259.7	1.223	5.4	0.6	13.3	1.0	0.5	0.77	0.79211	2734.8	17.2	2700.9	9.2	2675.5	10	-2.22
Erin-RMA	1640823	1358773	203812.0	2.378	5.3	0.5	13.4	0.8	0.5	0.66	0.80849	2709.3	14.7	2708.1	7.8	2707.2	8	-0.08
Erin-RMA	1963237	1625766	51223.5	3.727	7.5	0.4	7.1	0.8	0.4	0.63	0.83382	2124.2	11.4	2125.5	6.7	2126.8	7	0.12
Erin-RMA	847534	701847	33342.6	2.616	7.2	0.4	7.9	0.7	0.4	0.58	0.81721	2238.2	10.9	2216.4	6.4	2196.4	7	-1.9
Erin-RMA	439042	363572	84667.1	1.421	5.5	0.5	12.4	0.9	0.5	0.68	0.77869	2614.8	14.5	2638.5	8.2	2656.7	9	1.58
Erin-RMA	125594	104005	14348.8	0.646	6.7	0.9	8.7	1.3	0.4	0.98	0.74073	2301.5	19.0	2306.2	12.1	2310.3	15	0.38
Erin-RMA	545444	451685	24035.2	1.258	8.2	0.5	5.8	0.9	0.4	0.71	0.82429	1937.3	11.8	1945.2	7.4	1953.7	9	0.84
Erin-RMA	1588665	1315581	54130.2	1.805	7.2	0.5	7.7	0.8	0.4	0.64	0.79386	2198.1	11.8	2199.6	7.2	2201.1	8	0.14
Erin-RMA	515756	427100	25787.4	2.442	4.5	0.5	17.7	0.9	0.6	0.74	0.81810	2938.6	17.6	2971.2	8.7	2993.3	8	1.83
Erin-RMA	889793	736842	184678.2	3.715	7.5	0.4	7.4	0.7	0.4	0.52	0.79277	2199.8	9.8	2165.0	5.9	2132.2	7	-3.17
Erin-RMA	1339097	1108912	77882.6	2.642	4.2	0.5	19.3	0.9	0.6	0.76	0.82694	3030.8	18.5	3058.2	8.9	3076.2	8	1.48
Erin-RMA	1098405	909594	217612.7	2.152	7.5	0.5	7.2	0.8	0.4	0.63	0.77763	2146.9	11.6	2138.5	7.3	2130.4	9	-0.78
Erin-RMA	1210247	1002211	71122.4	1.806	8.2	0.5	6.0	0.7	0.4	0.53	0.75048	1964.8	9.0	1969.7	6.2	1974.8	8	0.51
Erin-RMA	1059284	877198	37764.5	1.905	8.2	0.5	6.0	0.8	0.4	0.65	0.78597	1989.7	11.1	1980.8	7.2	1971.5	9	-0.92
Erin-RMA	826121	684115	48700.9	1.426	7.3	0.4	7.4	0.7	0.4	0.58	0.79683	2160.7	10.7	2165.3	6.5	2169.7	8	0.41
Erin-RMA	1737529	1438856	270127.6	2.350	5.3	0.4	13.3	0.7	0.5	0.61	0.82785	2691.8	13.3	2704.0	6.9	2713.1	7	0.79
Erin-RMA	1077769	892505	77111.5	3.682	6.1	0.4	10.6	0.7	0.5	0.50	0.76957	2477.0	10.3	2484.6	6.1	2490.8	7	0.55
Erin-RMA	294499	243876	43569.1	1.872	7.1	0.6	7.6	1.0	0.4	0.79	0.79663	2161.5	14.6	2189.1	9.0	2215.0	10	2.42
Erin-RMA	840328	695880	55229.0	2.505	7.5	0.5	7.2	1.0	0.4	0.91	0.89028	2153.0	16.6	2141.9	9.1	2131.2	8	-1.02
Erin-RMA	1601248	1326001	66642.0	0.830	7.8	0.5	6.5	0.8	0.4	0.69	0.82204	2033.3	12.0	2042.2	7.4	2051.3	8	0.87
Erin-RMA	2162820	1791041	246182.2	2.239	5.3	0.4	13.4	0.7	0.5	0.52	0.76978	2696.0	11.5	2707.7	6.4	2716.5	7	0.76
Erin-RMA	1346170	1114770	205736.8	1.376	7.5	0.5	7.1	0.7	0.4	0.53	0.75456	2126.5	9.6	2122.5	6.3	2118.6	8	-0.37
Erin-RMA	1575643	1304797	825521.8	2.151	7.4	0.4	7.3	0.7	0.4	0.54	0.80551	2137.5	9.9	2147.0	6.0	2156.2	7	0.87
Erin-RMA	751080	621973	256569.2	3.061	7.4	0.5	7.4	0.8	0.4	0.62	0.75199	2150.9	11.4	2156.0	7.4	2160.8	10	0.46
Erin-RMA	989142	819113	#####	2.954	4.2	0.4	20.0	0.8	0.6	0.62	0.82157	3066.6	15.1	3092.5	7.3	3109.4	7	1.38
Erin-RMA	1330402	1101712	163883.1	0.900	7.8	0.5	6.5	0.8	0.4	0.64	0.81712	2026.4	11.2	2041.4	6.9	2056.7	8	1.47
Erin-RMA	912509	755653	131063.3	1.324	5.0	0.5	14.7	0.8	0.5	0.67	0.82200	2761.6	15.0	2793.9	7.7	2817.2	8	1.97
Erin-RMA	1163996	963911	#####	2.065	8.6	0.5	5.4	0.8	0.3	0.60	0.78706	1878.3	9.7	1884.7	6.5	1891.7	8	0.71
Erin-RMA	872594	722599	57964.6	1.351	4.2	0.5	20.5	0.8	0.6	0.59	0.75305	3152.6	14.7	3113.5	7.6	3088.3	8	-2.08
Erin-RMA	429145	355377	24778.4	1.770	7.3	0.6	7.4	0.8	0.4	0.50	0.64312	2142.0	9.0	2161.8	6.9	2180.7	10	1.77

Erin-RMA	296155	245247	12659.0	3.716	7.5	0.8	7.0	1.2	0.4	0.95	0.76953	2097.1	16.9	2111.3	10.9	2125.1	14	1.31
Erin-RMA	437038	361913	43671.5	1.677	7.3	0.6	7.5	1.0	0.4	0.75	0.76331	2187.5	14.0	2177.1	8.9	2167.2	11	-0.94
Erin-RMA	975238	807599	164911.7	0.837	7.6	0.5	6.8	0.8	0.4	0.61	0.76354	2067.8	10.8	2089.5	7.1	2110.8	9	2.04
Erin-RMA	1066626	883278	51983.5	1.862	7.5	0.6	7.4	0.9	0.4	0.63	0.72244	2194.0	11.8	2157.8	7.9	2123.5	11	-3.32
Erin-RMA	1009994	836380	743970.5	2.388	5.0	0.4	15.3	0.9	0.6	0.76	0.87897	2848.6	17.5	2835.6	8.3	2826.4	7	-0.79
Erin-RMA	780959	646715	52434.7	2.457	7.6	0.5	7.0	0.8	0.4	0.71	0.83877	2132.0	12.9	2117.4	7.6	2103.2	8	-1.37
Erin-RMA	534198	442372	58566.4	1.213	5.3	0.6	13.6	0.9	0.5	0.58	0.66655	2742.3	12.9	2723.2	8.2	2709.1	11	-1.23
Erin-RMA	2233405	1849494	49273.5	1.516	7.2	0.4	7.7	0.7	0.4	0.48	0.73448	2203.9	9.0	2199.8	5.9	2195.9	8	-0.37
Erin-RMA	236396	195760	8811.3	2.249	7.2	0.9	7.6	1.1	0.4	0.62	0.56904	2190.1	11.5	2181.3	9.8	2172.9	16	-0.79
Erin-RMA	167224	138479	8978.5	19.694	7.4	0.9	6.8	1.3	0.4	0.86	0.64857	2040.3	15.0	2091.5	11.7	2142.3	18	4.76
Erin-RMA	1622703	1343768	260276.2	2.349	5.3	0.4	13.4	0.6	0.5	0.43	0.76835	2710.1	9.6	2705.8	5.3	2702.7	6	-0.28
Erin-RMA	1591332	1317789	204753.9	1.676	7.6	0.4	6.9	0.7	0.4	0.54	0.82075	2108.1	9.8	2102.3	5.9	2096.7	7	-0.54
Erin-RMA	1565443	1296351	104891.7	1.719	7.6	0.4	6.9	0.7	0.4	0.53	0.77046	2109.8	9.5	2102.1	6.1	2094.5	8	-0.73
Erin-RMA	459803	380765	14621.6	2.025	7.0	0.7	8.0	0.9	0.4	0.62	0.69068	2249.4	11.8	2235.6	8.2	2223.0	11	-1.19
Erin-RMA	1179650	976873	49760.9	1.376	7.6	0.4	6.9	0.7	0.4	0.54	0.78314	2109.5	9.8	2104.4	6.2	2099.3	8	-0.49
Erin-RMA	1443647	1195491	588299.1	2.208	5.4	0.4	13.3	0.6	0.5	0.46	0.77309	2707.5	10.2	2701.7	5.6	2697.4	6	-0.37
Erin-RMA	772454	639673	91036.7	1.721	5.0	0.4	14.9	0.8	0.5	0.68	0.85750	2812.8	15.6	2811.2	7.6	2810.1	7	-0.09
Erin-RMA	2062375	1707863	198659.4	2.448	7.4	0.4	7.1	0.6	0.4	0.51	0.80105	2107.7	9.1	2122.6	5.6	2137.1	7	1.38
Erin-RMA	1478123	1224040	58808.0	2.015	8.4	0.4	5.7	0.7	0.4	0.50	0.75817	1948.5	8.3	1929.9	5.6	1909.9	8	-2.02
Erin-RMA	733060	607050	29101.2	2.241	8.5	0.5	5.5	0.7	0.3	0.55	0.73506	1911.4	9.1	1899.5	6.4	1886.6	9	-1.31
Erin-RMA	393807	326114	16440.2	1.447	7.5	0.6	6.9	0.9	0.4	0.69	0.74829	2071.7	12.2	2093.6	8.2	2115.2	11	2.05
Erin-RMA	265073	219509	21303.9	1.350	6.3	0.5	9.7	0.8	0.5	0.68	0.79983	2396.1	13.6	2404.9	7.8	2412.4	9	0.68
Erin-RMA	1261126	1044344	345004.1	1.926	5.4	0.5	13.0	0.8	0.5	0.64	0.78230	2661.4	13.9	2680.0	7.7	2694.1	8	1.21
Erin-RMA	657618	544577	330090.5	2.048	7.2	0.5	7.7	0.7	0.4	0.53	0.71086	2212.4	9.9	2198.7	6.7	2186.0	9	-1.21
Erin-RMA	717088	593824	151679.6	1.329	7.3	0.5	7.5	0.7	0.4	0.50	0.71497	2176.3	9.2	2175.6	6.3	2174.9	9	-0.06
Erin-RMA	1281992	1061624	49360.6	2.102	5.3	0.4	13.2	0.6	0.5	0.47	0.74936	2672.2	10.2	2690.8	5.9	2704.8	7	1.2
Erin-RMA	1836852	1521105	201783.5	2.265	5.3	0.3	13.5	0.6	0.5	0.54	0.83969	2715.6	11.9	2712.1	6.0	2709.4	6	-0.23
Erin-RMA	2179267	1804661	#####	3.079	5.8	0.5	11.2	0.7	0.5	0.50	0.72312	2525.1	10.5	2538.2	6.5	2548.6	8	0.92
Erin-RMA	426519	353202	28944.9	0.942	7.6	0.6	6.7	0.9	0.4	0.62	0.71344	2049.1	10.9	2066.7	7.7	2084.3	11	1.69
Erin-RMA	132341	109592	7865.6	2.301	3.5	0.8	27.9	1.0	0.7	0.64	0.63812	3481.6	17.2	3415.9	9.8	3377.5	12	-3.08
Erin-RMA	1638883	1357167	798339.7	1.128	7.6	0.5	6.8	0.8	0.4	0.64	0.77202	2089.0	11.4	2091.2	7.3	2093.4	9	0.21
Erin-RMA	787119	651817	26719.0	2.561	7.5	0.6	7.2	0.8	0.4	0.60	0.71619	2150.5	11.0	2133.9	7.5	2118.0	10	-1.54
Erin-RMA	1556600	1289028	#####	1.930	7.3	0.5	7.5	0.7	0.4	0.55	0.76194	2166.3	10.2	2173.8	6.5	2180.8	8	0.67
Erin-RMA	848890	702970	22690.6	1.641	7.5	0.5	7.1	0.8	0.4	0.57	0.72728	2127.8	10.4	2126.7	7.0	2125.6	10	-0.11
Erin-RMA	879741	728518	#####	2.623	7.3	0.5	7.6	0.8	0.4	0.62	0.75385	2197.0	11.5	2186.3	7.3	2176.2	9	-0.96
Erin-RMA	684573	566898	32784.2	1.272	7.2	0.6	7.8	0.9	0.4	0.67	0.75088	2220.3	12.5	2205.4	8.0	2191.5	10	-1.31
Erin-RMA	1486636	1231090	51604.0	2.883	8.4	0.5	5.7	0.8	0.3	0.59	0.77634	1924.9	9.8	1925.4	6.6	1926.0	9	0.06
Erin-RMA	1625764	1346303	84546.8	2.603	5.4	1.1	13.3	1.7	0.5	1.27	0.74994	2719.4	28.2	2701.1	16.0	2687.5	19	-1.19
Erin-RMA	982129	813306	88694.2	2.109	7.6	0.4	6.7	0.8	0.4	0.65	0.84704	2065.5	11.5	2076.6	6.8	2087.6	7	1.06
Erin-RMA	793710	657275	219683.2	1.949	7.5	0.5	7.1	0.9	0.4	0.70	0.79775	2134.5	12.6	2128.4	7.8	2122.4	9	-0.57
Erin-RMA	2185552	1809866	947464.5	1.360	4.9	0.4	15.1	0.8	0.5	0.68	0.85464	2804.5	15.4	2818.8	7.5	2829.1	7	0.87
Erin-RMA	3034297	2512715	63134.9	2.109	7.3	0.4	7.4	0.7	0.4	0.55	0.84084	2150.4	10.1	2158.7	5.9	2166.6	6	0.74
Erin-RMA	1778226	1472557	477408.0	2.227	5.3	0.4	13.3	0.8	0.5	0.66	0.83406	2695.2	14.5	2698.1	7.4	2700.2	7	0.19

Erin-RMA	1132109	937505	39184.2	1.665	6.0	0.5	10.9	0.7	0.5	0.53	0.75344	2536.3	11.1	2515.7	6.5	2499.0	8	-1.49
Erin-RMA	774041	640987	35580.9	2.894	7.2	0.5	7.7	0.8	0.4	0.63	0.77434	2197.5	11.8	2198.6	7.4	2199.5	9	0.09
Erin-RMA	917776	760014	43630.8	1.982	7.7	0.5	6.6	0.7	0.4	0.54	0.71982	2053.6	9.4	2056.7	6.6	2059.9	9	0.31
Erin-RMA	1044885	865274	31943.1	2.433	7.3	0.5	7.4	0.8	0.4	0.57	0.74478	2163.4	10.4	2157.3	6.8	2151.5	9	-0.55
Erin-RMA	887351	734819	69247.0	2.101	7.5	0.6	7.1	0.9	0.4	0.69	0.76316	2137.4	12.6	2124.5	8.1	2112.0	10	-1.2
Erin-RMA	2983976	2471045	161951.3	2.766	7.1	0.4	7.7	0.8	0.4	0.69	0.85992	2176.1	12.8	2197.6	7.2	2217.7	7	1.88
Erin-RMA	3601061	2982055	195825.4	3.900	7.1	0.5	7.8	0.8	0.4	0.60	0.78741	2189.9	11.1	2208.0	6.8	2224.8	8	1.57
Erin-RMA	552177	457260	15428.2	5.132	5.9	0.7	10.9	0.9	0.5	0.54	0.61299	2501.2	11.2	2511.9	8.2	2520.6	12	0.77
Erin-RMA	472228	391054	59013.6	1.972	7.2	0.6	7.9	0.8	0.4	0.59	0.71856	2236.8	11.2	2218.0	7.4	2200.7	10	-1.64
Erin-RMA	362417	300119	276210.1	2.135	7.4	0.5	7.1	0.7	0.4	0.51	0.69799	2097.2	9.2	2124.5	6.6	2150.9	9	2.5
Erin-RMA	1625788	1346323	381380.0	2.594	7.4	0.6	7.1	0.9	0.4	0.65	0.75325	2121.9	11.8	2128.5	7.7	2135.0	10	0.61
Erin-RMA	1304047	1079887	260203.6	2.324	5.4	0.5	13.4	0.7	0.5	0.54	0.75666	2738.1	12.1	2710.8	6.8	2690.4	8	-1.77
Erin-RMA	1840390	1524036	87784.8	3.187	7.6	0.5	6.9	0.7	0.4	0.48	0.71007	2098.3	8.5	2099.2	5.9	2100.1	8	0.09
Erin-RMA	1794036	1485650	68169.1	1.235	8.1	0.5	6.0	0.8	0.4	0.71	0.83776	1967.7	12.1	1971.3	7.4	1975.2	8	0.38
Erin-RMA	1740129	1441009	65103.1	2.522	5.3	0.4	13.3	0.7	0.5	0.60	0.80438	2714.5	13.3	2704.1	7.1	2696.4	7	-0.67
Erin-RMA	1357758	1124365	50373.7	1.033	7.9	0.4	6.6	0.8	0.4	0.67	0.84009	2069.8	11.9	2053.8	7.0	2037.8	8	-1.57
Erin-RMA	1247520	1033077	80820.6	2.117	5.4	0.4	13.4	0.7	0.5	0.57	0.80106	2739.6	12.6	2708.9	6.7	2686.0	7	-2
Erin-RMA	1196189	990570	27327.2	2.450	8.5	0.5	5.2	0.8	0.3	0.62	0.76544	1826.6	9.8	1857.6	6.9	1892.6	9	3.49
Erin-RMA	1643418	1360922	162757.3	2.143	5.3	0.4	13.2	0.7	0.5	0.59	0.79923	2679.3	13.0	2694.9	7.0	2706.6	7	1.01
Erin-RMA	1534830	1271000	503857.2	2.184	5.4	0.5	13.2	0.8	0.5	0.61	0.75264	2684.6	13.4	2691.3	7.6	2696.4	9	0.44
Erin-RMA	1409323	1167067	120895.8	0.928	7.3	0.5	7.6	0.8	0.4	0.59	0.77410	2184.3	10.9	2182.6	6.8	2181.0	8	-0.15
Erin-RMA	1031521	854207	51729.1	1.923	7.2	0.6	7.8	0.8	0.4	0.63	0.73915	2218.8	11.8	2209.5	7.6	2200.9	10	-0.81
Erin-RMA	1567763	1298272	68400.3	3.143	7.3	0.4	7.5	0.6	0.4	0.48	0.74404	2165.2	8.9	2169.9	5.8	2174.4	8	0.42
Erin-RMA	924797	765829	369445.4	2.084	7.4	0.5	7.4	0.7	0.4	0.45	0.63360	2155.0	8.2	2156.7	6.3	2158.4	10	0.16
Erin-RMA	2025282	1677146	75065.5	2.089	5.3	0.4	13.1	0.6	0.5	0.46	0.77980	2665.6	10.1	2688.1	5.6	2705.0	6	1.46
Erin-RMA	787519	652148	26213.0	0.483	8.1	0.5	6.0	0.8	0.4	0.68	0.80470	1963.2	11.4	1975.4	7.3	1988.1	9	1.25
Erin-RMA	860031	712195	#####	1.930	7.2	0.5	7.6	0.9	0.4	0.76	0.85197	2179.6	14.0	2186.2	8.0	2192.3	8	0.58
Erin-RMA	1759161	1456769	56827.2	2.323	5.3	0.3	13.1	0.6	0.5	0.52	0.83803	2678.5	11.4	2690.4	5.9	2699.3	6	0.77
Erin-RMA	1277637	1058017	69798.3	2.159	7.2	0.6	7.7	0.9	0.4	0.64	0.75050	2186.1	11.8	2195.5	7.7	2204.1	10	0.82
Erin-RMA	1012379	838356	285343.7	2.022	7.2	0.4	7.7	0.7	0.4	0.60	0.81031	2185.3	11.1	2194.7	6.7	2203.5	8	0.82
Erin-RMA	664695	550437	73385.3	2.118	7.6	0.6	6.9	0.9	0.4	0.60	0.69089	2096.5	10.7	2098.3	7.7	2100.1	11	0.17
Erin-RMA	1039985	861217	70473.5	1.993	6.7	0.5	8.5	0.8	0.4	0.61	0.80209	2256.5	11.6	2283.7	6.9	2308.1	8	2.23
Erin-RMA	1758655	1456351	112128.2	1.818	5.4	0.4	13.2	0.7	0.5	0.58	0.80634	2685.5	12.7	2692.1	6.8	2697.0	7	0.43
Erin-RMA	731857	606054	31093.7	1.105	7.4	0.5	7.3	0.8	0.4	0.62	0.80709	2148.7	11.4	2147.5	6.9	2146.3	8	-0.11
Erin-RMA	1346840	1115324	612479.6	2.856	7.6	0.5	6.9	0.7	0.4	0.56	0.76055	2090.3	10.0	2099.5	6.5	2108.6	8	0.86
Erin-RMA	1808773	1497853	218562.9	1.975	7.6	0.5	7.0	0.8	0.4	0.63	0.79136	2118.8	11.4	2111.0	7.1	2103.5	9	-0.73
Erin-RMA	281057	232744	37202.9	1.437	6.8	0.6	8.3	1.0	0.4	0.81	0.80703	2242.3	15.2	2264.1	9.0	2283.8	10	1.82
Erin-RMA	1506266	1247346	126742.2	2.208	5.4	1.1	12.9	1.7	0.5	1.30	0.77185	2672.7	28.5	2676.0	15.9	2678.5	18	0.21
Erin-RMA	666007	551524	51921.4	0.982	5.5	0.4	12.7	0.8	0.5	0.70	0.85042	2670.7	15.3	2656.6	7.7	2645.8	7	-0.94
Erin-RMA	485207	401802	50299.7	1.183	7.2	0.5	7.7	2.3	0.4	2.25	0.97390	2182.1	41.6	2191.1	20.7	2199.4	9	0.79
Erin-RMA	648175	536757	#####	1.737	7.4	0.5	7.3	0.8	0.4	0.63	0.77352	2155.6	11.5	2150.7	7.2	2146.0	9	-0.45
Erin-RMA	2231852	1848207	133886.7	1.253	8.5	0.5	5.5	0.8	0.3	0.66	0.80903	1907.5	10.9	1901.4	7.0	1894.7	9	-0.68
Erin-RMA	1189886	985350	116640.5	1.227	8.2	0.4	6.1	0.7	0.4	0.62	0.85096	2006.9	10.8	1989.2	6.4	1970.8	7	-1.83

Erin-RMA	920698	762435	37330.0	1.360	7.1	0.5	7.9	0.8	0.4	0.61	0.75420	2230.7	11.4	2218.9	7.3	2208.0	9	-1.02
Erin-RMA	832620	689497	23490.2	2.723	7.3	0.5	7.5	0.8	0.4	0.58	0.73537	2187.7	10.7	2173.3	7.0	2159.8	9	-1.29
Erin-RMA	1281536	1061246	67778.2	2.966	7.4	0.5	7.2	0.8	0.4	0.56	0.74093	2131.8	10.2	2138.1	6.7	2144.2	9	0.58
Erin-RMA	301721	249857	11413.9	1.170	7.5	0.7	7.2	0.9	0.4	0.57	0.62405	2158.7	10.4	2139.2	8.1	2120.5	12	-1.8
Erin-RMA	3051359	2526845	110943.4	1.137	4.8	0.4	15.7	0.7	0.5	0.52	0.78736	2818.8	11.9	2857.1	6.3	2884.1	7	2.27
Erin-RMA	1791199	1483300	100202.0	1.643	5.3	0.4	13.4	0.8	0.5	0.66	0.84586	2695.2	14.5	2710.9	7.4	2722.7	7	1.01
Erin-RMA	760135	629471	74484.8	1.818	7.3	0.5	7.5	0.7	0.4	0.51	0.69633	2171.1	9.4	2169.4	6.5	2167.8	9	-0.15
Erin-RMA	638346	528617	37656.6	1.313	7.5	0.7	6.9	0.9	0.4	0.61	0.66866	2090.0	10.9	2103.7	8.1	2117.1	12	1.28
Erin-RMA	974776	807217	182297.7	3.498	7.5	0.4	7.2	0.9	0.4	0.75	0.86002	2141.5	13.7	2138.6	7.8	2135.8	8	-0.27
Erin-RMA	3763567	3116627	474725.7	2.708	7.7	0.4	6.6	0.6	0.4	0.52	0.82370	2044.8	9.2	2064.1	5.6	2083.4	6	1.86
Erin-RMA	538781	446167	54045.4	1.974	7.6	0.5	7.0	0.9	0.4	0.71	0.81105	2105.7	12.8	2107.1	7.8	2108.4	9	0.13
Erin-RMA	1012609	838546	34463.0	2.506	5.4	0.5	13.1	0.7	0.5	0.55	0.73730	2671.7	12.0	2684.0	7.0	2693.3	8	0.8
Erin-RMA	978190	810044	57571.1	2.235	5.3	0.4	13.0	0.7	0.5	0.59	0.82615	2649.8	12.8	2679.6	6.7	2702.2	7	1.94
Erin-RMA	1460360	1209331	#####	1.858	3.7	0.4	24.3	0.7	0.7	0.52	0.78122	3239.8	13.3	3279.1	6.5	3303.2	7	1.92
Erin-RMA	773275	640353	21915.6	2.705	7.5	0.5	7.3	0.9	0.4	0.66	0.77175	2173.2	12.1	2144.7	7.6	2117.6	9	-2.62
Erin-RMA	1380144	1142903	49707.4	1.565	7.6	0.4	6.9	0.7	0.4	0.56	0.80531	2079.0	9.9	2095.6	6.1	2111.9	7	1.56
Erin-RMA	1577567	1306391	542298.7	2.502	5.3	0.5	13.2	0.9	0.5	0.68	0.78922	2677.9	15.0	2691.4	8.2	2701.6	9	0.88
Erin-RMA	640100	530070	49000.8	1.018	5.0	0.5	14.9	0.8	0.5	0.65	0.80948	2807.4	14.8	2810.3	7.7	2812.4	8	0.18
Erin-RMA	1574453	1303812	135612.4	2.645	7.4	0.4	7.2	0.8	0.4	0.65	0.83101	2125.8	11.7	2133.8	6.9	2141.5	8	0.73
Erin-RMA	2412629	1997910	93602.5	2.352	5.3	0.5	13.2	0.7	0.5	0.49	0.69081	2664.4	10.6	2691.6	6.6	2712.1	8	1.76
Erin-RMA	903206	747949	31971.5	2.032	6.7	0.5	8.7	0.8	0.4	0.57	0.75078	2303.5	10.9	2305.0	6.9	2306.4	9	0.13
Erin-RMA	1415649	1172306	398094.6	2.093	5.7	0.4	11.5	0.7	0.5	0.62	0.83620	2546.4	12.9	2566.3	6.9	2582.0	7	1.38
Erin-RMA	728412	603201	22481.1	0.850	7.6	0.4	6.8	0.7	0.4	0.60	0.80358	2081.9	10.7	2084.8	6.6	2087.5	8	0.27
Erin-RMA	1347759	1116086	64316.6	2.215	5.4	0.3	13.2	0.5	0.5	0.43	0.83221	2686.6	9.5	2693.0	4.9	2697.7	5	0.41
Erin-RMA	1493598	1236855	59473.3	1.779	8.1	0.6	6.1	0.8	0.4	0.53	0.68165	1990.1	9.0	1986.7	6.8	1983.2	10	-0.35
Erin-RMA	2509812	2078387	165161.9	1.295	7.6	0.4	7.0	0.7	0.4	0.53	0.79400	2110.3	9.5	2111.6	5.9	2112.9	7	0.12
Erin-RMA	426419	353120	42773.8	2.116	5.4	0.6	13.3	0.9	0.5	0.66	0.76390	2704.0	14.5	2700.5	8.1	2697.8	9	-0.23
Erin-RMA	2184378	1808894	82101.2	1.631	7.5	0.4	7.0	0.8	0.4	0.64	0.82268	2107.4	11.6	2112.1	7.0	2116.7	8	0.44
Erin-RMA	1843990	1527017	134362.7	2.292	5.3	0.4	13.1	0.6	0.5	0.45	0.72764	2651.3	9.7	2684.5	5.8	2709.6	7	2.15
Erin-RMA	1189476	985010	67113.1	2.748	4.2	0.5	19.0	0.8	0.6	0.58	0.76414	2967.1	13.8	3041.0	7.3	3090.2	8	3.98
Erin-RMA	649260	537655	60795.4	2.121	6.9	0.5	8.1	0.7	0.4	0.57	0.76298	2219.0	10.7	2240.8	6.8	2260.7	8	1.85
Erin-RMA	1302276	1078421	193770.0	2.900	4.8	0.5	15.9	1.0	0.6	0.83	0.87303	2870.6	19.3	2869.3	9.1	2868.4	8	-0.08
Erin-RMA	424908	351868	9583.8	1.220	15.0	1.4	0.9	1.9	0.1	0.53	0.28665	626.3	3.2	655.5	9.0	757.1	38	17.3
Erin-RMA	792443	656225	48494.4	2.722	7.2	0.7	7.8	0.9	0.4	0.66	0.70856	2206.8	12.2	2204.6	8.3	2202.6	11	-0.19
Erin-RMA	1442349	1194416	144387.2	1.484	7.2	0.5	7.7	0.8	0.4	0.56	0.71691	2179.1	10.3	2192.2	7.0	2204.4	9	1.15
Erin-RMA	413602	342506	160644.7	1.671	7.3	0.6	7.6	0.8	0.4	0.57	0.71442	2183.0	10.5	2180.3	7.1	2177.8	10	-0.24
Erin-RMA	2126779	1761195	188886.4	1.963	5.3	0.4	13.1	0.8	0.5	0.69	0.83735	2657.2	14.9	2688.1	7.7	2711.4	7	2
Erin-RMA	1361022	1127068	203005.3	2.190	5.2	0.4	13.6	0.7	0.5	0.57	0.80938	2689.5	12.5	2720.2	6.6	2743.0	7	1.95
Erin-RMA	1404083	1162727	95981.7	1.735	5.3	0.5	13.4	0.8	0.5	0.64	0.79215	2706.5	14.2	2707.2	7.7	2707.8	8	0.05
Erin-RMA	748959	620216	610132.8	1.892	7.5	0.6	7.1	0.8	0.4	0.52	0.68379	2124.3	9.4	2122.8	6.8	2121.4	10	-0.14
Erin-RMA	650420	538616	25547.0	2.352	7.5	0.5	7.0	0.9	0.4	0.67	0.76990	2117.6	12.0	2116.6	7.7	2115.7	10	-0.09
Erin-RMA	1082268	896231	210613.6	1.409	7.6	0.5	7.2	0.7	0.4	0.46	0.64503	2160.6	8.5	2133.8	6.4	2108.1	10	-2.49
Erin-RMA	2203290	1824555	48795.4	1.817	8.5	0.5	5.5	0.9	0.3	0.71	0.79297	1889.1	11.6	1898.7	7.7	1909.2	10	1.05

Erin-RMA : 1221847	1011818	139086.5	1.399	4.3	0.5	19.0	0.8	0.6	0.65	0.80850	3044.6	15.7	3041.4	7.7	3039.3	8	-0.18
Erin-RMA : 366352	303378	121717.7	0.560	7.6	0.7	7.0	1.0	0.4	0.63	0.66377	2116.2	11.4	2112.1	8.5	2108.1	13	-0.38
Erin-RMA : 1359807	1126063	46327.6	3.243	7.4	0.5	7.3	0.7	0.4	0.53	0.70754	2137.5	9.6	2143.3	6.6	2148.9	9	0.53
Erin-RMA : 705563	584280	36382.2	2.424	7.4	0.6	7.3	0.9	0.4	0.66	0.71954	2152.5	12.1	2144.5	8.2	2136.9	11	-0.73
Erin-RMA : 754060	624441	69444.3	2.022	7.2	0.6	7.8	0.9	0.4	0.70	0.76788	2232.8	13.2	2208.6	8.2	2186.2	10	-2.13
Erin-RMA : 1956410	1620113	46530.6	1.064	8.0	0.5	6.1	0.8	0.4	0.63	0.80250	1982.0	10.7	1992.7	6.8	2003.7	8	1.08
Erin-RMA : 1371382	1135648	88364.7	2.628	5.3	0.4	13.2	0.6	0.5	0.52	0.80943	2670.5	11.3	2692.3	6.0	2708.6	6	1.41
Erin-RMA : 1031365	854078	55906.1	0.775	7.6	0.4	7.0	0.7	0.4	0.53	0.81178	2109.8	9.6	2109.4	5.8	2109.0	7	-0.04
Erin-RMA : 543500	450075	57955.1	1.389	7.5	0.6	7.1	0.9	0.4	0.71	0.76170	2130.6	12.8	2124.1	8.3	2117.9	11	-0.6
Erin-RMA : 2669896	2210953	71375.1	1.360	5.6	0.4	12.2	0.7	0.5	0.54	0.77833	2616.6	11.6	2622.0	6.5	2626.2	7	0.37
Erin-RMA : 1825965	1512090	134334.9	1.750	7.7	0.5	6.8	0.8	0.4	0.66	0.78998	2078.6	11.8	2082.6	7.4	2086.6	9	0.38
Erin-RMA : 676809	560469	50692.1	2.194	4.4	0.5	18.3	0.8	0.6	0.67	0.82527	3006.6	16.1	3004.5	7.8	3003.1	7	-0.12
Erin-RMA : 1024305	848232	57030.8	2.206	5.4	0.5	13.5	0.7	0.5	0.53	0.71733	2746.3	11.9	2717.1	7.0	2695.5	9	-1.88
Erin-RMA : 621033	514280	73192.6	2.388	7.1	0.6	7.8	0.9	0.4	0.69	0.74619	2187.6	12.8	2208.4	8.3	2227.7	11	1.8
Erin-RMA : 453830	375819	29464.6	1.708	5.4	0.6	13.3	0.8	0.5	0.58	0.71430	2703.3	12.8	2698.0	7.7	2694.0	9	-0.34
Erin-RMA : 1746744	1446487	124670.1	2.183	8.5	0.5	5.6	0.7	0.3	0.51	0.73008	1933.1	8.5	1922.4	6.0	1910.8	9	-1.17
Erin-RMA : 1430237	1184386	68827.1	1.073	7.2	0.4	7.9	0.7	0.4	0.60	0.82584	2233.4	11.3	2220.6	6.5	2208.8	7	-1.11
Erin-RMA : 3707967	3070585	186053.2	2.486	7.7	0.4	6.6	0.7	0.4	0.63	0.86511	2047.4	11.0	2061.2	6.4	2075.0	6	1.33
Erin-RMA : 2032214	1682886	60240.7	2.602	8.5	0.4	5.5	0.7	0.3	0.56	0.80787	1912.5	9.2	1907.0	5.9	1901.0	7	-0.6
Erin-RMA : 1866326	1545513	571959.9	2.321	5.3	0.5	13.2	0.8	0.5	0.54	0.69862	2671.3	11.7	2693.8	7.2	2710.7	9	1.45
Erin-RMA : 1156094	957367	51551.8	1.481	7.3	0.5	7.5	0.9	0.4	0.67	0.77258	2169.2	12.3	2171.4	7.8	2173.5	10	0.2
Erin-RMA : 1079743	894140	427634.4	2.166	7.5	0.6	7.2	0.9	0.4	0.64	0.72914	2145.0	11.7	2135.3	7.8	2126.0	11	-0.89
Erin-RMA : 1623206	1344184	125958.0	1.268	6.1	0.5	10.3	0.8	0.5	0.68	0.80770	2451.4	13.9	2462.0	7.8	2470.8	8	0.79
Erin-RMA : 1001856	829642	108856.1	3.190	7.3	0.6	7.7	0.9	0.4	0.71	0.78955	2204.2	13.2	2191.5	8.1	2179.5	10	-1.13
Erin-RMA : 481530	398757	79410.9	3.106	7.3	0.6	7.6	0.8	0.4	0.55	0.69600	2185.7	10.2	2179.2	7.1	2173.1	10	-0.58
Erin-RMA : 445626	369025	93640.8	1.577	7.4	0.7	7.6	1.1	0.4	0.88	0.76864	2213.2	16.5	2183.7	10.3	2156.1	13	-2.65
Erin-RMA : 1182382	979136	32949.8	2.116	7.4	0.5	7.3	0.8	0.4	0.60	0.74016	2147.4	10.9	2148.6	7.2	2149.7	9	0.1
Erin-RMA : 1226218	1015437	56467.2	2.799	7.5	0.4	7.2	0.8	0.4	0.68	0.84688	2157.0	12.5	2138.8	7.2	2121.3	7	-1.68
Erin-RMA : 1596433	1322014	#####	2.211	5.3	0.4	13.5	0.8	0.5	0.68	0.85333	2718.0	15.0	2713.0	7.5	2709.3	7	-0.32
Erin-RMA : 2537231	2101093	111259.3	3.174	7.6	0.4	6.8	0.6	0.4	0.48	0.77557	2084.5	8.6	2091.0	5.5	2097.3	7	0.61
Erin-RMA : 2281283	1889141	213437.5	2.517	7.5	0.5	7.1	0.8	0.4	0.60	0.79750	2114.2	10.9	2118.3	6.7	2122.3	8	0.38
Erin-RMA : 955165	790977	#####	1.068	5.5	0.4	12.7	0.7	0.5	0.59	0.80498	2655.1	12.8	2654.0	6.9	2653.2	7	-0.07
Erin-RMA : 987788	817992	48649.7	1.967	7.6	0.5	6.9	0.8	0.4	0.68	0.81617	2107.2	12.1	2104.5	7.3	2101.7	8	-0.26
Erin-RMA : 914628	757407	77907.4	1.671	5.3	0.4	13.4	0.7	0.5	0.59	0.83789	2711.0	13.1	2708.7	6.7	2707.0	6	-0.15
Erin-RMA : 472777	391509	222843.8	2.105	5.3	0.5	13.5	0.8	0.5	0.60	0.76871	2721.4	13.2	2717.7	7.3	2715.0	8	-0.24
Erin-RMA : 362173	299917	19517.5	3.062	7.4	0.6	7.2	0.9	0.4	0.61	0.70198	2109.1	11.0	2131.8	7.8	2153.7	11	2.07
Erin-RMA : 2703064	2238420	116298.4	1.946	8.5	0.4	5.5	0.8	0.3	0.61	0.80697	1887.6	10.0	1899.8	6.5	1913.1	8	1.33
Erin-RMA : 2295791	1901155	93184.4	2.064	5.3	0.3	13.3	0.7	0.5	0.59	0.86612	2670.4	12.8	2700.4	6.4	2722.9	6	1.93
Erin-RMA : 1031381	854092	51720.8	1.721	7.5	0.6	7.0	0.8	0.4	0.53	0.68913	2092.5	9.5	2106.4	6.8	2120.1	10	1.3
Erin-RMA : 1287842	1066468	191766.6	1.119	7.2	0.4	7.6	0.7	0.4	0.62	0.83858	2164.2	11.4	2186.6	6.6	2207.8	7	1.98
Erin-RMA : 1002595	830253	67714.5	2.248	7.0	0.5	8.1	0.7	0.4	0.54	0.75385	2228.8	10.2	2241.7	6.5	2253.5	8	1.09
Erin-RMA : 811569	672064	125968.4	1.282	7.3	0.5	7.4	0.9	0.4	0.75	0.83055	2154.4	13.7	2164.8	8.0	2174.7	9	0.93
Erin-RMA : 1678108	1389649	146230.5	2.358	5.4	0.3	13.2	0.6	0.5	0.47	0.81433	2679.9	10.3	2691.7	5.4	2700.6	6	0.77

Erin-RMA : 1628732	1348761	#####	2.246	5.3	0.4	13.5	0.7	0.5	0.58	0.84832	2719.6	12.9	2715.6	6.5	2712.6	6	-0.26
Erin-RMA : 861364	713300	37069.9	1.808	8.5	0.6	5.4	0.9	0.3	0.63	0.69738	1877.0	10.2	1892.1	7.7	1908.8	12	1.67
Erin-RMA : 1063763	880907	49109.2	3.241	6.4	0.5	9.3	0.7	0.4	0.52	0.71888	2346.9	10.2	2368.6	6.6	2387.4	9	1.7
Erin-RMA : 921168	762823	49315.9	0.729	7.6	0.5	6.9	0.8	0.4	0.58	0.72847	2097.2	10.3	2100.5	7.0	2103.7	10	0.31
Erin-RMA : 593499	491479	30519.1	1.288	6.1	0.5	10.4	0.9	0.5	0.76	0.81671	2464.9	15.6	2471.5	8.6	2477.0	9	0.49
Erin-RMA : 507739	420461	21825.8	3.125	7.5	0.6	7.0	0.9	0.4	0.65	0.73481	2090.4	11.7	2109.8	7.9	2128.7	11	1.8
Erin-RMA : 1422987	1178383	134746.3	0.793	5.3	0.5	13.5	0.7	0.5	0.51	0.74750	2712.4	11.3	2718.6	6.4	2723.2	7	0.4
Erin-RMA : 1410458	1168007	262558.8	2.043	8.5	0.5	5.5	0.9	0.3	0.73	0.81889	1911.1	12.1	1906.9	7.7	1902.2	9	-0.47
Erin-RMA : 2403427	1990289	98977.8	2.364	5.7	0.5	11.6	0.8	0.5	0.59	0.77088	2554.2	12.4	2576.2	7.1	2593.5	8	1.52
Erin-RMA : 954223	790197	135405.0	1.388	4.9	0.5	15.4	0.7	0.5	0.54	0.76014	2809.3	12.3	2837.2	6.8	2857.1	7	1.67
Erin-RMA : 824474	682751	131360.5	1.783	6.7	0.4	8.8	0.8	0.4	0.72	0.86403	2312.5	14.1	2314.7	7.6	2316.7	7	0.18
Erin-RMA : 1030951	853735	67875.0	1.904	7.1	0.5	7.9	0.8	0.4	0.60	0.76015	2228.9	11.3	2225.2	7.1	2221.8	9	-0.32
Erin-RMA : 1687277	1397242	76905.2	2.165	5.4	0.7	13.3	1.2	0.5	1.00	0.80138	2722.7	22.1	2704.4	11.8	2690.7	12	-1.19
Erin-RMA : 3505512	2902931	265827.3	3.734	7.5	0.4	7.1	0.7	0.4	0.56	0.84266	2129.1	10.1	2128.8	5.9	2128.5	6	-0.03
Erin-RMA : 576772	477627	20638.7	1.481	7.3	0.5	7.6	1.0	0.4	0.85	0.86613	2200.7	15.9	2186.8	8.8	2173.8	9	-1.24
Erin-RMA : 649542	537889	606986.7	3.997	7.6	0.5	7.0	0.8	0.4	0.69	0.83459	2110.9	12.4	2109.0	7.3	2107.1	8	-0.18
Erin-RMA : 803679	665530	153895.9	1.075	8.1	0.5	5.9	0.9	0.4	0.69	0.80393	1945.9	11.6	1966.1	7.5	1987.4	9	2.09
Erin-RMA : 936786	775757	173663.7	3.261	7.5	0.5	7.2	0.8	0.4	0.57	0.72442	2155.4	10.4	2138.9	7.0	2123.1	9	-1.52
Erin-RMA : 927971	768457	198937.9	2.492	7.5	0.6	7.2	0.9	0.4	0.65	0.74817	2128.5	11.8	2132.3	7.8	2136.1	10	0.35
Erin-RMA : 870441	720816	98940.1	1.429	7.4	0.5	7.2	0.8	0.4	0.58	0.72989	2135.5	10.5	2137.6	7.1	2139.6	9	0.19
Erin-RMA : 1019930	844609	51499.8	2.724	7.2	0.4	7.8	0.7	0.4	0.52	0.77985	2235.9	9.8	2213.0	6.0	2191.9	7	-2.01
Erin-RMA : 666660	552065	127883.1	1.982	7.3	0.6	7.4	0.9	0.4	0.66	0.73499	2151.5	12.1	2160.9	8.1	2169.7	11	0.84
Erin-RMA : 1894135	1568542	143442.0	2.233	5.3	0.4	13.3	0.8	0.5	0.65	0.85751	2702.3	14.4	2701.0	7.2	2700.1	6	-0.08
Erin-RMA : 413828	342693	20266.8	0.419	7.4	0.5	7.2	0.8	0.4	0.62	0.75620	2131.2	11.2	2137.9	7.3	2144.4	9	0.62
Erin-RMA : 1483692	1228652	195256.8	2.760	7.5	0.4	7.0	0.8	0.4	0.65	0.84540	2104.7	11.6	2113.3	6.8	2121.6	7	0.8
Erin-RMA : 1273335	1054455	206741.3	1.698	7.3	0.4	7.6	0.8	0.4	0.66	0.83537	2199.4	12.4	2182.2	7.1	2166.1	8	-1.54
Erin-RMA : 970190	803419	54412.8	2.094	3.6	0.4	24.9	0.7	0.7	0.55	0.79866	3288.4	14.1	3303.2	6.7	3312.2	6	0.72
Erin-RMA : 1176658	974396	171026.8	1.268	5.0	0.4	14.9	0.6	0.5	0.50	0.79254	2804.4	11.5	2811.6	6.1	2816.8	6	0.44
Erin-RMA : 1300445	1076905	48523.9	2.352	5.3	0.4	13.3	0.7	0.5	0.64	0.87026	2706.4	14.1	2701.1	6.9	2697.0	6	-0.35
Erin-RMA : 693568	574347	53161.4	1.307	7.6	0.6	6.9	0.8	0.4	0.56	0.67447	2110.5	10.1	2102.2	7.4	2094.1	11	-0.78
Erin-RMA : 1126063	932498	208044.3	1.325	6.9	0.5	8.4	0.8	0.4	0.53	0.70852	2271.5	10.2	2271.5	6.8	2271.5	9	0
Erin-RMA : 1445566	1197080	107996.8	2.180	7.1	0.4	7.7	0.8	0.4	0.62	0.81949	2184.5	11.6	2198.2	6.8	2210.9	8	1.19
Erin-RMA : 752814	623409	37688.7	1.365	5.6	0.4	11.9	0.8	0.5	0.69	0.85091	2567.7	14.6	2599.8	7.6	2624.9	7	2.18
Erin-RMA : 1514550	1254206	73796.4	1.388	7.6	0.5	6.9	0.9	0.4	0.76	0.84915	2100.0	13.6	2102.7	7.9	2105.2	8	0.24
Erin-RMA : 866444	717506	30881.7	2.167	7.4	0.4	7.3	0.9	0.4	0.75	0.86600	2157.4	13.8	2144.2	7.8	2131.6	8	-1.21
Erin-RMA : 820797	679706	182263.4	2.049	7.0	0.6	8.0	0.9	0.4	0.66	0.72550	2223.5	12.3	2233.5	8.2	2242.7	11	0.86
Erin-RMA : 1350636	1118468	123121.4	1.535	4.6	0.5	16.9	0.8	0.6	0.63	0.76957	2921.3	14.9	2931.7	7.9	2938.9	8	0.6
Erin-RMA : 736994	610308	80430.1	4.187	7.2	0.6	7.6	1.0	0.4	0.75	0.78658	2174.8	13.9	2187.9	8.6	2200.2	10	1.16
Erin-RMA : 1870089	1548630	83618.3	3.478	7.5	0.5	7.0	0.9	0.4	0.70	0.80802	2102.0	12.6	2107.4	7.7	2112.7	9	0.51
Erin-RMA : 390011	322970	16724.8	1.726	6.9	0.6	8.6	0.8	0.4	0.59	0.70627	2331.4	11.6	2297.6	7.7	2267.7	10	-2.81
Erin-RMA : 2607006	2158874	813086.5	3.135	7.0	0.5	7.9	1.0	0.4	0.90	0.87263	2203.3	16.9	2223.2	9.3	2241.6	9	1.71
Erin-RMA : 1524470	1262421	229631.2	1.234	4.9	0.4	15.1	0.7	0.5	0.57	0.78841	2800.0	12.9	2821.2	6.9	2836.3	7	1.28

Run 1 (discordant Sept. 2022)

Erin-RMA 3023 2504 1500.0 ##### 5.1 1.0 36.1 1.2 1.3 0.60 0.51448 5473.5 22.1 3668.2 11.5 2789.4 16 -96.2

TABLE S20: NM8A (no CA) LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition									Ages								
	U	U (norm)	206Pb/	U/Th	206Pb/ 1 σ	207Pb/ 1 σ	206Pb/ 1 σ	Error	206Pb/ 1 σ	207Pb/ 1 σ	206Pb/ 1 σ	206Pb/ 1 σ	%					
	(238 cps)	(238 cps)	204Pb		207Pb (%)	235U (%)	238U (%)	Corr.	238U	(Ma)	235U	(Ma)	207Pb	(Ma)	Disc.			
Run 1																		
Spot 1	5599576	7112862	29964.4	5.3	15.2	0.9	0.7	2.1	0.1	1.9	0.910491342	474.0	8.8	531.9	8.8	788.7	18.5	39.9
Spot 2	2169188	2755411	58210.4	1.8	17.0	1.2	0.7	2.0	0.1	1.5	0.778781167	506.9	7.5	516.6	8.0	560.0	26.9	9.5
Spot 3	3751078	4764807	5788.9	3.5	19.5	3.1	0.1	4.3	0.0	1.7	0.388083183	92.9	1.5	95.0	3.9	147.5	92.9	37.0
Spot 6	4755489	6040661	50161.6	4.5	12.5	1.1	2.0	2.2	0.2	1.9	0.857266561	1099.1	18.8	1130.0	14.8	1189.9	22.0	7.6
Spot 7	7597479	9650699	80811.8	15.8	12.4	0.7	2.2	1.3	0.2	1.1	0.833450915	1173.5	11.4	1188.9	9.0	1217.0	13.9	3.6
Spot 8	2235618	2839794	4861.0	1.9	18.8	1.7	0.3	4.1	0.0	2.2	0.541319173	248.0	5.4	244.1	9.0	206.4	80.5	-20.2
Spot 9	860473	1093016	86535.5	3.5	14.3	1.1	1.4	2.1	0.1	1.7	0.835781649	877.4	14.1	894.2	12.2	935.9	23.1	6.2
Spot 10	2300319	2921980	27735.2	1.7	19.1	1.1	0.3	1.8	0.0	1.4	0.767571523	263.9	3.5	267.1	4.1	294.8	25.8	10.5
Spot 11	2226489	2828197	80115.1	3.0	11.1	0.7	2.8	1.5	0.2	1.3	0.862400444	1312.3	14.9	1363.3	10.9	1444.3	14.0	9.1
Spot 12	595002	755801	16460.0	2.7	12.3	1.5	2.2	2.0	0.2	1.3	0.651046674	1135.4	13.4	1166.4	13.7	1224.4	29.4	7.3
Spot 13	6313502	8019727	240506.6	3.0	12.4	0.8	2.4	1.6	0.2	1.4	0.860778278	1233.3	15.7	1231.5	11.6	1228.3	16.2	-0.4
Spot 15	2332804	2963245	85796.0	3.6	12.5	0.7	2.1	1.4	0.2	1.2	0.85830459	1108.1	12.1	1142.1	9.5	1207.3	14.0	8.2
Spot 16	11524163	14638569	63559.8	1.7	19.1	0.8	0.3	1.4	0.0	1.2	0.842411239	251.5	2.9	257.7	3.2	314.4	17.4	20.0
Spot 17	3524726	4477283	54893.3	1.6	8.5	1.0	5.3	2.0	0.3	1.7	0.867931607	1796.9	26.7	1863.9	16.7	1939.4	17.4	7.3
Spot 18	790212	1003767	62192.5	3.6	12.3	0.9	2.1	1.5	0.2	1.2	0.806758304	1103.6	11.9	1148.3	10.0	1233.9	16.9	10.6
Spot 19	6845115	8695008	16851.2	2.3	17.5	1.1	0.6	1.8	0.1	1.4	0.793988917	459.6	6.2	462.3	6.6	475.9	23.8	3.4
Spot 20	5067409	6436877	18634.7	1.5	18.2	2.6	0.3	3.0	0.0	1.5	0.499282903	253.1	3.7	267.3	7.1	394.0	58.4	35.8
Spot 22	1166512	1481762	3699.2	1.5	18.1	2.4	0.3	3.2	0.0	1.5	0.455761237	265.3	3.8	265.6	7.5	268.4	65.2	1.2
Spot 23	2280900	2897314	8315082.4	5.3	12.8	0.8	2.0	1.7	0.2	1.5	0.893243874	1098.8	15.1	1120.0	11.4	1161.5	14.9	5.4
Spot 24	4695612	5964601	134026.2	3.0	12.7	1.0	2.1	1.7	0.2	1.4	0.815324729	1127.1	14.3	1142.4	11.6	1171.5	19.5	3.8
Spot 25	3296966	4187971	4462.7	1.5	18.9	0.9	0.3	1.6	0.1	1.3	0.798335804	319.4	4.0	304.6	4.2	192.6	22.3	-65.9
Spot 26	3873783	4920673	38247.6	1.8	13.1	1.2	1.8	2.0	0.2	1.6	0.804810964	996.3	14.7	1031.7	12.9	1107.6	23.5	10.0
Spot 27	5488921	6972303	115953.0	4.3	11.7	1.7	2.5	2.5	0.2	1.8	0.712153062	1233.2	19.8	1272.8	18.0	1340.4	33.6	8.0
Spot 28	301274	382693	47380.2	2.8	13.7	2.4	1.5	3.8	0.2	3.0	0.780081914	901.8	25.0	938.7	23.4	1026.1	48.3	12.1
Spot 29	6025556	7653962	54143.0	7.9	12.7	0.9	2.0	1.8	0.2	1.5	0.853818897	1071.1	15.0	1106.4	12.0	1176.6	18.4	9.0
Spot 31	2015014	2559572	205727.3	3.7	14.3	0.8	1.4	1.4	0.1	1.1	0.817759922	890.3	9.4	905.3	8.3	941.9	16.4	5.5
Spot 32	525957	668097	8536.9	3.7	13.9	1.3	1.6	2.7	0.2	2.4	0.87375435	1001.3	22.1	987.0	17.2	955.2	27.1	-4.8
Spot 33	1831156	2326026	5239.7	4.0	16.8	1.5	0.4	3.3	0.1	2.6	0.79945272	344.3	8.8	365.1	10.1	499.6	43.4	31.1
Spot 35	6471250	8220105	52883.8	3.9	13.1	0.8	1.7	1.4	0.2	1.2	0.843446736	959.1	10.8	1004.8	9.1	1105.8	15.4	13.3
Spot 36	347125	440935	7488.7	1.5	12.5	2.1	2.1	3.4	0.2	2.6	0.772399783	1119.9	26.8	1138.3	23.1	1173.7	42.4	4.6
Spot 37	3261149	4142475	11351.7	1.9	19.4	1.1	0.3	2.1	0.0	1.4	0.677309505	265.4	3.7	261.6	4.9	227.6	35.7	-16.6
Spot 38	5813246	7384276	25122.8	1.6	19.8	1.4	0.3	3.0	0.0	2.6	0.882394403	272.1	7.0	265.5	7.0	207.9	32.6	-30.9
Spot 39	705287	895891	14276.8	4.1	13.8	1.7	1.4	2.2	0.1	1.3	0.609172105	875.2	10.8	906.8	13.0	984.8	35.0	11.1
Spot 40	2242120	2848053	23973.6	2.4	14.4	0.8	1.4	1.5	0.1	1.2	0.823693898	895.0	10.4	897.7	9.0	904.3	17.6	1.0
Spot 42	3844825	4883890	1908802.1	5.1	13.9	0.8	1.6	1.9	0.2	1.7	0.894228536	945.8	14.7	962.4	11.6	1000.4	16.9	5.5
Spot 44	9443460	11995555	38903.5	10.8	19.2	1.2	0.3	1.7	0.0	1.2	0.70515509	263.4	3.0	266.2	3.9	291.3	26.8	9.6
Spot 45	10540173	13388656	139456.9	11.5	13.8	0.7	1.7	1.4	0.2	1.2	0.852780503	997.8	11.3	1003.8	9.1	1016.9	15.1	1.9
Spot 46	13760142	17478822	42108.2	15.6	11.3	0.6	2.4	1.8	0.2	1.7	0.934947634	1148.0	17.9	1238.1	13.0	1398.5	12.4	17.9

Spot 48	2268841	2881995	23150.4	2.5	11.5	0.7	2.6	1.8	0.2	1.6	0.908840566	1248.2	18.3	1288.5	12.9	1356.3	14.3	8.0
Spot 49	1609062	2043911	29853.9	1.3	15.7	2.2	0.8	3.2	0.1	2.4	0.743906337	578.3	13.3	610.5	14.8	731.8	45.6	21.0
Spot 50	1980929	2516275	59680.6	9.2	10.4	0.7	3.3	1.8	0.2	1.7	0.920708413	1438.2	21.7	1484.2	14.3	1550.6	13.4	7.2
Spot 51	1508354	1915987	23420.2	3.2	13.5	1.2	1.7	2.0	0.2	1.6	0.803481115	1001.7	14.6	1011.5	12.5	1032.9	23.5	3.0
Spot 53	614881	781053	3285.7	3.2	13.2	1.3	1.7	2.0	0.2	1.5	0.758457323	1020.9	14.3	1008.1	12.8	980.6	26.5	-4.1
Spot 55	1569232	1993317	68999.5	1.8	16.7	1.3	0.8	1.7	0.1	1.0	0.596073775	562.1	5.3	570.8	7.2	605.7	28.8	7.2
Spot 56	1567308	1990873	20049.9	1.9	18.6	1.4	0.5	2.4	0.1	1.9	0.7947212	444.2	8.1	428.1	8.3	342.7	32.5	-29.6
Spot 57	979772	1244555	15958.0	4.1	13.0	1.0	2.0	1.9	0.2	1.5	0.820998331	1131.4	15.8	1124.7	12.7	1111.9	21.2	-1.8
Spot 58	9040102	11483191	33064.3	3.3	17.9	0.9	0.5	1.6	0.1	1.4	0.831191409	415.7	5.5	419.2	5.6	438.2	20.2	5.1
Spot 60	2500427	3176167	94908.8	3.7	15.2	1.0	1.0	1.9	0.1	1.6	0.842734039	676.2	10.2	708.5	9.7	812.2	21.3	16.7
Spot 61	642490	816123	9962.3	1.9	19.3	4.9	0.2	6.6	0.0	4.3	0.659465649	183.4	7.8	186.5	11.2	226.2	114.4	18.9
Spot 62	4267056	5420229	100783.6	2.1	11.7	0.9	2.5	2.0	0.2	1.7	0.878994029	1217.9	19.1	1262.2	14.1	1338.5	18.0	9.0
Spot 63	3369679	4280334	16182.8	8.3	17.3	1.3	0.5	1.8	0.1	1.2	0.667978683	377.0	4.3	395.2	5.8	503.2	28.9	25.1
Spot 64	4829304	6134424	14908.8	1.6	19.0	1.4	0.2	2.1	0.0	1.5	0.707729795	218.1	3.2	223.9	4.2	285.4	33.6	23.6
Spot 65	3728092	4735609	2302.4	1.0	18.6	4.1	0.1	4.8	0.0	1.8	0.386549844	53.0	1.0	53.5	2.5	76.0	NA	30.3
Spot 66	895997	1138140	649.2	2.6	16.0	5.6	0.2	6.1	0.0	2.3	0.3772672	179.0	4.1	145.8	8.3	NA	NA	
Spot 67	2712834	3445978	205510.7	2.5	9.9	0.7	3.4	1.5	0.2	1.3	0.865209155	1423.8	16.0	1514.1	11.4	1642.9	13.5	13.3
Spot 68	1412291	1793962	2169.9	2.0	17.8	4.4	0.2	5.3	0.0	2.8	0.531743769	160.5	4.4	161.9	7.9	181.6	103.7	11.6
Spot 69	7669945	9742748	15275.7	1.2	19.2	0.9	0.3	1.4	0.0	1.1	0.778752156	257.0	2.7	256.8	3.1	254.4	20.0	-1.0
Spot 70	1079650	1371425	51846.1	7.4	5.8	2.7	11.1	3.2	0.5	1.8	0.568488061	2460.5	37.8	2532.2	30.3	2590.2	44.6	5.0
Spot 71	5816286	7388137	9391.3	3.3	19.8	1.3	0.2	2.2	0.0	1.6	0.720020915	172.3	2.7	171.5	3.5	160.8	35.7	-7.2
Spot 72	3584327	4552991	25550019.2	4.6	12.5	0.9	2.2	1.6	0.2	1.4	0.843979433	1176.6	14.8	1185.6	11.4	1202.0	17.2	2.1
Spot 73	3214174	4082805	3302.7	2.9	16.3	5.4	0.1	6.9	0.0	2.8	0.407946473	70.5	2.0	84.3	5.5	495.2	138.0	85.8
Spot 75	1563690	1986278	35585.3	4.0	12.7	0.8	2.1	1.5	0.2	1.3	0.83737342	1147.0	13.4	1150.9	10.5	1158.3	16.5	1.0
Spot 76	5421577	6886759	20600.5	16.6	19.8	1.4	0.2	3.1	0.0	2.8	0.896242879	224.8	6.2	222.2	6.2	195.2	32.1	-15.1
Spot 77	1940340	2464717	39602.9	1.9	13.0	1.0	1.8	1.7	0.2	1.4	0.82374362	1014.3	13.1	1045.8	11.0	1112.0	19.1	8.8
Spot 78	610757	775814	9591.1	1.9	14.2	1.2	1.4	1.8	0.2	1.4	0.758165339	902.0	11.8	904.1	11.0	909.1	24.8	0.8
Spot 79	3789839	4814043	7007.4	1.5	19.1	1.2	0.3	1.6	0.0	1.0	0.623992675	239.4	2.4	237.3	3.4	216.2	29.5	-10.8
Spot 80	2846320	3615538	6553.8	1.6	19.3	1.0	0.3	2.8	0.0	1.4	0.491251151	270.9	3.6	261.6	6.4	179.4	56.4	-51.0
Spot 81	4671631	5934140	42638.4	6.6	15.6	0.9	0.7	2.8	0.1	2.6	0.941770974	523.3	13.3	567.3	12.2	747.8	19.9	30.0
Spot 83	7501266	9528484	33529.7	18.8	12.2	0.8	2.2	1.5	0.2	1.2	0.83878819	1151.0	13.1	1185.0	10.3	1247.5	15.7	7.7
Spot 84	1126081	1430405	24326.5	1.8	19.5	1.9	0.3	2.5	0.0	1.7	0.674238879	270.6	4.5	266.6	5.9	231.1	43.2	-17.1
Spot 85	5294879	6725821	17724.5	0.6	19.6	1.2	0.2	1.9	0.0	1.4	0.749315413	173.2	2.4	175.6	3.1	208.5	29.0	16.9
Spot 86	2108070	2677776	97115.1	13.8	14.4	0.6	1.4	1.4	0.1	1.2	0.881291046	882.4	9.8	892.9	8.0	918.9	13.1	4.0
Spot 87	375763	477313	3053.5	1.3	20.3	4.3	0.2	7.3	0.0	5.9	0.806829476	199.9	11.6	179.4	12.0	NA	NA	
Spot 88	1579211	2005993	4998.1	1.0	19.1	2.7	0.2	3.4	0.0	1.6	0.477676386	187.1	3.0	185.7	5.7	167.8	69.4	-11.5
Spot 89	3223454	4094593	6651.5	5.3	19.9	1.9	0.2	2.5	0.0	1.6	0.648011	195.0	3.1	188.5	4.2	108.1	44.4	-80.4
Spot 90	3145584	3995678	63083.5	2.0	12.2	0.8	2.2	2.0	0.2	1.8	0.905100691	1158.2	19.2	1187.4	14.0	1241.0	16.6	6.7
Spot 92	649702	825284	8961.6	1.8	16.8	2.9	0.6	3.2	0.1	1.4	0.442045376	455.7	6.2	468.1	12.0	528.9	62.8	13.8
Spot 93	4206616	5343454	182212.8	15.7	14.3	0.9	0.9	1.9	0.1	1.7	0.876628999	596.1	9.7	669.5	9.5	925.0	19.2	35.6
Spot 94	4466112	5673078	76932.9	1.2	13.7	0.8	1.6	1.8	0.2	1.6	0.894380096	939.7	14.2	958.7	11.3	1002.7	16.5	6.3
Spot 96	1674551	2127098	3085.7	1.9	20.3	2.1	0.2	3.5	0.0	2.0	0.577581791	164.3	3.2	149.2	4.8	NA	NA	
Spot 97	1392098	1768313	44494.7	5.0	14.0	1.0	1.5	2.1	0.2	1.9	0.885908271	929.3	16.1	938.4	12.8	959.8	19.8	3.2

Spot 98	1268414	1611203	40908.5	1.6	16.2	1.4	0.9	1.9	0.1	1.4	0.698844625	658.9	8.5	659.3	9.4	660.3	29.8	0.2
Spot 99	4556339	5787689	101677.5	13.5	12.5	0.8	2.1	1.5	0.2	1.3	0.85666387	1133.2	13.5	1156.6	10.5	1200.6	15.4	5.6
Spot 100	810876	1030016	11649.6	1.2	19.2	3.0	0.3	3.6	0.0	2.1	0.578577027	277.2	5.7	272.9	8.7	235.6	68.3	-17.6
Spot 101	1537319	1952779	16041.4	5.9	11.6	0.9	2.6	1.8	0.2	1.5	0.864338802	1285.3	18.0	1297.0	13.1	1316.4	17.4	2.4
Spot 102	656475	833888	31245.8	1.9	12.7	1.0	2.1	1.7	0.2	1.4	0.801477916	1149.2	14.6	1151.8	11.9	1156.7	20.6	0.6
Spot 103	1567865	1991580	340975.0	5.8	10.4	0.9	3.4	1.4	0.3	1.1	0.769626437	1480.0	14.2	1509.0	10.9	1549.8	16.7	4.5
Spot 104	902694	1146647	21739.9	1.9	14.1	1.0	1.6	1.7	0.2	1.4	0.810276227	980.0	12.8	968.7	10.9	943.1	20.9	-3.9
Spot 105	2232529	2835869	3722.5	1.6	18.1	1.4	0.3	2.2	0.0	1.4	0.626245879	271.5	3.7	269.9	5.2	256.9	39.3	-5.7
Spot 106	4293587	5453930	12547.2	1.6	19.0	1.2	0.3	2.0	0.0	1.7	0.81091658	258.9	4.2	259.8	4.7	268.7	27.3	3.7
Spot 108	1816492	2307399	6938.6	1.1	19.1	2.1	0.3	2.6	0.0	1.5	0.582868258	265.3	3.9	259.5	5.9	207.0	48.6	-28.2
Spot 109	1931724	2453773	6865.7	1.4	19.6	1.3	0.3	1.8	0.0	1.3	0.687100273	266.9	3.3	254.8	4.1	145.5	31.1	-83.5
Spot 110	591369	751186	1980.6	1.7	17.9	4.1	0.3	5.0	0.0	1.9	0.369725514	260.7	4.8	247.9	11.1	128.2	110.2	-103.3
Spot 111	3073296	3903854	38028.3	2.3	11.8	1.0	2.5	1.7	0.2	1.3	0.790772379	1251.7	14.9	1271.5	12.0	1305.1	19.7	4.1
Spot 112	2135639	2712796	33741.4	1.8	12.4	0.9	2.0	2.1	0.2	1.9	0.898221812	1070.7	18.9	1115.3	14.4	1203.4	18.4	11.0
Spot 113	2216279	2815228	16149.4	7.0	16.7	1.4	0.7	2.6	0.1	2.1	0.837894715	554.5	11.4	556.6	11.0	564.9	30.5	1.8
Spot 114	2528522	3211855	15201.7	1.9	19.6	2.7	0.3	5.0	0.0	4.2	0.84150252	280.2	11.5	270.7	11.9	190.1	62.9	-47.4
Spot 115	4342391	5515922	6832.8	10.3	19.6	1.3	0.2	2.0	0.0	1.4	0.738495649	232.1	3.3	224.4	4.0	144.5	31.0	-60.6
Spot 117	6628984	8420468	117782.9	16.4	20.1	1.8	0.3	2.5	0.0	1.8	0.701551823	233.4	4.1	228.1	5.2	173.4	42.4	-34.6
Spot 118	6840850	8689590	57265.5	10.1	13.0	0.9	1.8	1.7	0.2	1.5	0.867642927	1023.5	14.3	1049.7	11.4	1104.7	17.4	7.4
Spot 119	2331061	2961031	12074.0	3.8	14.2	1.0	1.2	1.9	0.1	1.6	0.837355159	786.5	11.9	818.8	10.8	907.4	21.7	13.3
Spot 121	1496019	1900318	38639.3	2.7	12.6	1.1	2.2	1.7	0.2	1.3	0.752162633	1191.0	13.6	1182.4	11.6	1166.7	21.7	-2.1
Spot 122	1335224	1696069	100006.4	1.0	8.3	0.8	5.3	1.8	0.3	1.7	0.905625716	1780.1	25.9	1870.1	15.7	1971.6	13.9	9.7
Spot 123	2434535	3092468	17117.0	1.4	18.5	2.0	0.3	2.5	0.0	1.5	0.605660202	282.4	4.2	288.6	6.4	339.3	45.6	16.8
Spot 125	7242723	9200070	10672.9	8.7	16.0	1.3	0.4	2.1	0.0	1.3	0.626383351	287.3	3.6	331.2	5.8	652.5	34.4	56.0
Spot 126	1617130	2054160	32507.1	1.7	19.3	1.9	0.3	2.3	0.0	1.4	0.598754403	273.8	3.8	272.8	5.6	264.0	43.1	-3.7
Spot 127	2703073	3433579	54185.9	1.6	12.5	0.8	2.0	1.8	0.2	1.6	0.883959992	1046.3	15.2	1098.6	12.0	1203.7	16.4	13.1
Spot 128	2855418	3627095	22053.6	1.6	18.9	2.0	0.3	2.5	0.0	1.5	0.612692996	276.1	4.1	278.8	6.1	302.2	45.0	8.6
Spot 130	5363410	6812872	55474.8	1.8	12.1	0.8	2.2	1.6	0.2	1.3	0.859908037	1128.7	13.9	1171.3	10.8	1251.0	15.5	9.8
Spot 131	1398206	1776071	15583.5	4.9	12.7	0.7	2.1	1.7	0.2	1.5	0.899415335	1169.6	15.9	1159.2	11.5	1139.8	14.4	-2.6
Spot 132	961286	1221074	48784.9	3.6	12.9	2.1	2.1	2.8	0.2	1.9	0.664786383	1166.9	20.1	1151.8	19.5	1123.5	42.3	-3.9
Spot 133	2802755	3560200	23972.2	3.2	12.1	0.6	2.4	1.6	0.2	1.4	0.91523371	1220.5	16.0	1230.5	11.2	1248.0	12.4	2.2
Spot 134	1965321	2496449	7736.4	1.7	18.8	2.3	0.3	2.6	0.0	1.1	0.406827685	278.8	2.9	276.1	6.3	253.4	54.8	-10.0
Spot 135	1120457	1423260	12254.4	2.3	9.0	0.6	4.8	1.6	0.3	1.5	0.919963403	1774.1	22.7	1785.7	13.4	1799.4	11.4	1.4
Spot 136	5317936	6755108	33299.7	1.7	19.0	1.0	0.3	1.7	0.0	1.4	0.815582462	281.2	3.7	282.8	4.1	296.2	22.0	5.1
Spot 137	447927	568979	37631.3	2.8	12.7	1.1	2.1	1.9	0.2	1.6	0.814316643	1144.6	16.6	1145.9	13.4	1148.4	22.5	0.3
Spot 140	2120022	2692958	35108.1	3.4	12.8	0.9	2.1	1.9	0.2	1.6	0.875969658	1141.1	17.2	1138.7	12.9	1134.1	18.1	-0.6
Spot 141	4844054	6153160	4472.1	1.9	17.4	1.9	0.2	2.8	0.0	2.0	0.722699872	180.0	3.6	194.3	4.9	371.5	43.4	51.6
Spot 143	1532373	1946497	36306.9	3.2	14.1	0.9	1.5	1.5	0.2	1.3	0.826146976	915.9	10.9	924.5	9.4	944.9	17.8	3.1
Spot 144	1938562	2462459	3385.0	1.7	19.6	1.2	0.3	2.2	0.0	1.2	0.55291087	271.1	3.2	248.0	4.9	34.7	NA	-682.2
Spot 146	1315918	1671545	20927.2	2.0	16.1	1.1	0.9	1.7	0.1	1.2	0.7206247	630.6	7.3	636.7	8.0	658.2	25.2	4.2
Spot 147	2438797	3097882	75935.9	2.6	13.1	4.4	1.0	5.5	0.1	3.2	0.586485397	590.4	18.2	708.9	28.0	1104.7	88.9	46.6
Spot 148	1694632	2152606	35207.7	0.7	8.6	0.7	5.4	1.2	0.3	1.0	0.802272841	1857.8	15.8	1877.0	10.4	1898.3	13.1	2.1
Spot 149	3649829	4636196	97997.1	2.9	12.2	0.8	2.3	1.3	0.2	1.0	0.801986942	1208.6	11.5	1221.4	9.2	1244.1	15.2	2.9

Spot 150	5604463	7119070	695766.4	1.1	19.0	1.5	0.3	2.2	0.0	1.6	0.741682386	277.3	4.4	281.0	5.4	311.7	33.6	11.0
Spot 151	4811577	6111905	37797.1	1.4	19.3	1.0	0.3	2.0	0.0	1.7	0.866770978	265.8	4.4	265.0	4.6	257.9	22.4	-3.1
Spot 152	895856	1137961	8968.4	1.4	16.5	1.7	0.7	3.3	0.1	2.8	0.834683305	528.4	14.0	536.1	13.8	569.1	39.6	7.1
Spot 154	10350439	13147646	16661.6	0.8	19.5	1.0	0.3	1.8	0.0	1.4	0.818501657	252.0	3.6	248.3	3.9	214.0	23.4	-17.7
Spot 156	1975123	2508900	8185.6	1.5	19.2	2.4	0.2	3.1	0.0	1.9	0.604705425	156.3	2.9	159.1	4.5	201.2	56.7	22.3
Spot 157	463653	588955	9184.6	1.6	13.9	1.1	1.4	2.2	0.1	1.8	0.853315623	877.7	15.2	894.9	12.9	937.7	23.1	6.4
Spot 158	8512373	10812842	62034.6	3.7	19.5	0.8	0.3	1.4	0.0	1.1	0.813460825	231.5	2.6	231.9	2.9	235.3	18.8	1.6
Spot 159	6188364	7860770	18847.0	0.8	18.3	0.9	0.4	1.8	0.1	1.6	0.863153046	371.6	5.6	370.7	5.6	364.6	20.6	-1.9
Spot 160	1256880	1596552	9360.6	2.6	12.8	0.9	2.1	1.5	0.2	1.2	0.809908222	1150.2	12.7	1133.4	10.2	1101.2	17.5	-4.5
Spot 161	3420610	4345030	35850.2	5.5	14.2	0.6	1.4	1.4	0.1	1.3	0.900164527	865.1	10.3	880.4	8.3	919.3	12.7	5.9
Spot 162	2230030	2832696	6283.4	1.9	13.2	4.4	0.4	4.7	0.0	1.7	0.363356671	273.7	4.6	370.0	14.6	1028.6	88.5	73.4
Spot 163	2282376	2899188	42898.1	7.7	13.7	1.1	1.6	1.8	0.2	1.5	0.804636625	978.4	13.5	983.0	11.6	993.4	22.2	1.5
Spot 164	354196	449918	19396.7	4.0	12.2	2.0	2.2	3.0	0.2	2.2	0.745460931	1159.8	23.4	1183.6	20.6	1227.5	38.6	5.5
Spot 165	3319906	4217110	34480.1	1.1	19.0	1.3	0.3	1.9	0.0	1.3	0.708279224	255.4	3.3	257.9	4.2	280.7	30.1	9.0
Spot 166	388562	493571	1784.5	2.2	16.1	3.6	0.7	5.4	0.1	4.0	0.747208934	551.1	21.3	515.3	21.8	359.3	80.8	-53.4
Spot 167	1836990	2333437	71009.4	2.3	14.2	1.0	1.5	1.4	0.2	1.1	0.740235821	953.5	9.4	946.6	8.8	930.6	19.7	-2.5
Spot 168	2330881	2960802	5194.7	1.8	18.7	1.5	0.3	2.1	0.0	1.3	0.615197789	264.2	3.4	260.1	4.9	223.2	39.0	-18.4
Spot 170	528411	671214	1249.8	2.1	18.1	3.9	0.3	7.1	0.0	2.8	0.400623353	275.2	7.6	235.3	14.8	NA	NA	
Spot 171	3529235	4483011	72623.4	9.6	8.9	1.1	4.8	1.8	0.3	1.5	0.804037951	1722.4	22.1	1776.3	15.2	1840.2	19.5	6.4
Spot 172	3640045	4623768	405628.0	12.7	12.6	0.9	2.2	1.6	0.2	1.4	0.833619925	1170.0	14.5	1172.3	11.3	1176.4	17.7	0.5
Spot 173	12923884	16416564	35198.9	4.6	12.1	1.0	2.1	1.5	0.2	1.1	0.7330992	1091.5	10.7	1144.9	10.0	1247.4	19.4	12.5
Spot 175	762998	969198	11429.0	2.4	18.5	2.2	0.3	2.7	0.0	1.6	0.593035282	264.4	4.1	269.6	6.4	315.5	49.4	16.2
Spot 177	2288013	2906349	31247.1	2.2	16.5	1.5	0.7	2.5	0.1	2.0	0.806058546	548.4	10.7	560.4	10.9	609.2	32.3	10.0
Spot 178	1509686	1917679	13198.6	1.1	17.4	2.2	0.3	2.6	0.0	1.4	0.526006959	264.6	3.5	285.9	6.5	463.8	49.1	43.0
Spot 179	1057026	1342687	789.8	1.9	19.7	3.8	0.1	5.5	0.0	3.7	0.663398381	125.3	4.5	83.4	4.4	NA	NA	
Spot 181	5316663	6753491	33620.1	5.2	19.4	1.4	0.3	2.2	0.0	1.6	0.762298932	241.5	3.9	241.4	4.6	240.5	32.1	-0.4
Spot 182	5559509	7061966	88040.8	0.9	17.6	1.0	0.5	1.8	0.1	1.5	0.838333212	410.9	6.0	421.4	6.2	479.3	21.6	14.3
Spot 184	1559961	1981540	35555.9	2.6	13.3	0.9	1.7	1.7	0.2	1.4	0.856679656	1009.1	13.5	1025.6	10.9	1060.9	17.5	4.9
Spot 186	2084902	2648347	10263.6	11.1	17.1	1.2	0.6	2.5	0.1	2.2	0.871521053	503.1	10.5	501.9	9.9	496.3	27.0	-1.4
Spot 187	5348680	6794161	35577.8	9.3	16.8	1.2	0.6	1.9	0.1	1.4	0.752288722	488.7	6.7	502.5	7.5	565.6	27.2	13.6
Spot 189	3768148	4786490	16005.0	6.1	17.8	0.9	0.4	1.5	0.1	1.2	0.772901508	341.7	3.9	353.1	4.5	428.7	21.3	20.3
Spot 190	3210128	4077666	12702.7	1.4	19.1	1.0	0.3	2.1	0.0	1.8	0.871621133	304.8	5.4	298.9	5.4	253.4	23.3	-20.3
Spot 191	1552141	1971607	3440.3	2.3	18.0	2.8	0.3	4.1	0.0	1.8	0.440218665	286.5	5.1	283.5	10.2	258.5	84.7	-10.8
Spot 192	4050451	5145085	33296.2	2.0	10.2	1.0	3.4	2.2	0.3	2.0	0.892403159	1461.7	25.6	1513.1	17.3	1585.9	18.5	7.8
Spot 193	2568116	3262149	7098.0	2.3	11.0	1.4	2.4	1.8	0.2	1.2	0.655367514	1150.1	12.7	1242.0	13.2	1405.1	26.6	18.1
Spot 194	1021822	1297969	7397.9	1.5	10.3	1.0	3.6	1.6	0.3	1.3	0.804261733	1572.2	18.4	1559.0	13.1	1541.1	18.3	-2.0
Spot 195	1977689	2512159	8657.5	2.2	20.2	2.3	0.2	3.3	0.0	2.3	0.695571311	163.1	3.7	158.9	4.8	97.0	55.4	-68.2
Spot 196	7340414	9324161	46733.6	16.6	13.9	0.7	1.6	1.4	0.2	1.2	0.883626976	989.9	11.4	987.8	8.9	983.3	13.4	-0.7
Spot 197	6226882	7909697	42921.6	3.4	11.1	1.1	2.7	2.2	0.2	1.9	0.86239266	1268.2	21.9	1325.7	16.4	1419.8	21.4	10.7
Spot 198	2534327	3219229	25892.2	19.1	12.3	0.7	2.3	1.7	0.2	1.6	0.907062628	1185.3	16.9	1197.0	12.1	1218.1	14.2	2.7
Spot 199	3116879	3959216	4494.4	2.2	18.1	2.3	0.2	3.1	0.0	1.9	0.619285981	153.8	2.9	162.3	4.6	287.9	55.1	46.6
Spot 200	3960779	5031180	757253.3	18.4	9.9	0.8	3.6	2.0	0.3	1.8	0.905870916	1471.6	23.7	1549.9	15.8	1658.4	15.6	11.3
Spot 201	1042231	1323894	17115.4	3.3	11.6	1.2	2.8	1.9	0.2	1.5	0.776030322	1353.4	17.7	1343.7	13.9	1328.2	22.8	-1.9

Spot 202	2031631	2580680	6651.1	5.5	19.9	1.5	0.3	2.3	0.0	1.6	0.724438948	241.0	3.9	228.7	4.6	103.6	36.8	-132.5
Spot 203	2187946	2779238	3715.4	2.5	19.4	4.6	0.1	5.6	0.0	3.2	0.567636903	69.6	2.2	70.2	3.8	92.8	NA	25.1
Spot 204	3799017	4825701	17173.0	1.9	19.6	1.3	0.3	2.1	0.0	1.6	0.767886029	254.6	4.1	250.4	4.8	211.5	31.8	-20.4
Spot 205	775114	984589	3498.9	1.6	17.4	4.0	0.2	5.0	0.0	2.9	0.573867046	169.7	4.8	182.3	8.3	349.0	92.0	51.4
Spot 206	336020	426829	4899.1	3.0	11.6	2.0	2.0	3.1	0.2	2.1	0.677029684	1029.0	19.8	1113.6	20.8	1282.6	44.0	19.8
Spot 207	4286434	5444842	59434.7	0.6	11.9	0.7	2.5	1.6	0.2	1.4	0.885214202	1257.4	15.7	1273.4	11.3	1300.3	14.1	3.3
Spot 209	7596463	9649408	205226.8	29.4	13.2	0.9	1.9	1.5	0.2	1.2	0.817474021	1065.4	12.3	1078.7	10.2	1105.8	17.6	3.6
Spot 210	1426150	1811568	11241.9	2.9	16.5	2.3	0.7	3.2	0.1	2.2	0.672586738	559.5	11.6	564.9	13.9	586.4	51.7	4.6
Spot 211	2632803	3344319	2636.3	0.7	19.3	1.4	0.3	1.9	0.0	1.3	0.676041169	252.5	3.2	231.0	3.9	17.4	NA	-1347.3
Spot 213	318542	404627	3034.3	5.7	14.1	2.3	1.2	5.3	0.1	3.2	0.598262813	823.4	24.5	821.8	29.9	817.4	88.8	-0.7
Spot 214	2876313	3653637	19818.2	4.7	11.9	1.1	2.3	1.9	0.2	1.5	0.797521568	1192.2	16.2	1224.4	13.3	1281.5	21.9	7.0
Spot 215	1488564	1890849	4440.1	1.9	19.6	2.7	0.2	3.6	0.0	2.4	0.666846196	195.8	4.7	189.0	6.3	104.4	64.0	-87.6
Spot 217	893748	1135284	386449.5	1.8	14.0	1.4	1.5	1.8	0.2	1.3	0.678699983	911.3	10.6	933.9	11.2	987.6	27.5	7.7
Spot 218	4809302	6109016	2673057.3	1.6	19.1	1.2	0.3	1.8	0.0	1.3	0.753042844	259.0	3.4	265.5	4.1	323.2	26.2	19.9
Spot 219	1906060	2421172	7915.6	1.3	19.7	1.9	0.3	3.5	0.0	3.0	0.836858753	293.5	8.5	280.1	8.7	169.5	45.4	-73.1
Spot 220	3114149	3955748	22387.3	2.7	12.6	1.0	2.1	1.7	0.2	1.4	0.806623524	1146.3	14.6	1159.8	11.9	1185.0	20.2	3.3
Spot 221	1575515	2001299	800987.8	1.6	6.2	0.7	9.5	1.6	0.4	1.5	0.900682631	2293.5	28.2	2391.7	14.9	2476.4	11.9	7.4
Spot 222	505986	642728	30875.5	1.5	14.4	1.3	1.4	2.9	0.1	2.6	0.886676677	865.3	20.9	880.1	17.1	917.5	27.7	5.7
Spot 223	2875777	3652956	22183.8	1.4	13.6	1.1	1.5	2.1	0.1	1.8	0.845996331	867.7	14.6	913.0	12.8	1024.2	22.9	15.3
Spot 224	5195261	6599281	7500.3	1.2	19.2	1.3	0.2	2.1	0.0	1.5	0.746766159	221.4	3.3	221.7	4.1	225.0	31.6	1.6
Spot 225	13455474	17091817	86886.5	4.1	18.4	0.9	0.4	1.5	0.1	1.3	0.816481514	363.3	4.4	368.7	4.7	403.3	19.8	9.9
Spot 226	1107771	1407146	16014.8	1.9	18.3	2.0	0.4	2.9	0.1	2.1	0.717045916	337.8	6.8	343.8	8.4	384.6	44.9	12.2
Spot 227	961386	1221201	64546.6	3.5	14.1	1.2	1.6	2.3	0.2	1.9	0.84992572	954.6	17.1	957.9	14.1	965.6	24.5	1.1
Spot 228	5030090	6389471	25374.0	2.9	13.9	0.9	1.0	2.3	0.1	2.1	0.924236359	617.4	12.4	702.7	11.6	986.3	17.7	37.4
Spot 229	7701644	9783014	68611.8	1.3	19.5	1.6	0.3	3.9	0.0	3.5	0.908608454	232.8	8.1	236.0	8.2	267.7	37.2	13.0
Spot 230	1271299	1614867	69940.9	3.3	12.1	1.0	2.4	1.6	0.2	1.3	0.790134766	1227.4	14.4	1242.8	11.7	1269.5	19.5	3.3
Spot 231	7062542	8971195	6146.6	2.3	19.5	0.9	0.3	1.8	0.0	1.6	0.878376061	257.2	4.0	248.7	4.0	168.9	20.3	-52.2
Spot 232	2631846	3343102	5919.3	2.0	17.7	1.3	0.5	1.8	0.1	1.3	0.704496158	456.1	5.5	444.9	6.4	387.3	28.5	-17.7
Spot 233	1228248	1560182	13682.6	3.6	11.9	0.9	2.5	1.9	0.2	1.6	0.862816818	1259.5	18.7	1270.6	13.7	1289.2	18.6	2.3
Spot 235	1409617	1790566	3528.7	0.8	19.8	2.2	0.2	2.9	0.0	1.8	0.602079603	177.9	3.1	168.1	4.5	32.3	NA	-451.2
Spot 237	2816540	3577710	23214.8	8.3	18.8	2.2	0.3	2.7	0.0	1.4	0.536638061	232.8	3.3	242.3	5.7	335.3	50.8	30.6
Spot 238	10787082	13702291	45910.0	46.1	13.4	0.8	1.7	1.5	0.2	1.3	0.840124923	999.8	11.7	1024.0	9.7	1075.9	16.3	7.1
Spot 239	813015	1032732	7234.8	2.8	14.4	1.6	1.4	2.5	0.2	1.6	0.632050349	901.4	13.5	892.8	15.1	871.4	40.8	-3.4
Spot 240	6592895	8374626	35168.6	2.4	11.5	1.1	2.6	2.3	0.2	2.0	0.871085418	1284.2	22.9	1314.2	16.7	1363.5	21.4	5.8
Spot 241	1790935	2274935	33143.7	6.5	13.0	1.1	2.0	2.0	0.2	1.7	0.844771963	1116.5	17.1	1118.6	13.4	1122.6	21.1	0.5
Spot 242	5813882	7385084	32129.2	2.2	18.5	1.8	0.4	2.1	0.0	1.2	0.5704771	304.7	3.6	314.1	5.8	384.3	39.6	20.7
Spot 244	9019760	11457351	199416.2	2.8	14.0	0.9	1.7	1.5	0.2	1.3	0.828659031	1016.6	11.9	1006.5	9.7	984.7	17.3	-3.2
Spot 245	5205930	6612833	346652.7	4.5	12.7	0.7	2.0	1.6	0.2	1.4	0.897500971	1076.5	14.2	1113.8	10.8	1187.4	13.9	9.3
Spot 247	1456007	1849493	39723.0	1.6	17.4	3.3	0.3	5.4	0.0	4.2	0.786123604	261.3	10.9	288.6	13.6	516.0	73.3	49.4
Spot 248	526349	668595	4133.6	3.9	16.8	3.1	0.5	4.7	0.1	3.1	0.665560712	424.4	12.9	431.2	16.6	467.3	78.0	9.2
Spot 249	3685878	4681987	41509.7	4.7	8.4	0.9	5.2	1.9	0.3	1.7	0.883730965	1776.7	26.2	1858.8	16.3	1951.8	16.0	9.0
Spot 250	2060868	2617818	3874.1	0.6	19.3	2.2	0.2	5.1	0.0	2.3	0.454909234	178.4	4.1	174.4	8.2	120.7	106.9	-47.8
Spot 251	544365	691480	33642.7	2.0	7.6	1.1	6.7	2.5	0.4	2.3	0.896053092	2008.3	39.4	2066.1	22.5	2124.2	19.8	5.5

Spot 253	9666921	12279407	33158.9	77.7	19.4	1.1	0.3	1.8	0.0	1.4	0.795973806	239.3	3.3	241.3	3.8	261.4	24.5	8.5
Spot 254	2329327	2958828	17170.9	2.8	12.3	1.0	2.2	1.7	0.2	1.4	0.814746678	1180.7	14.9	1196.5	11.9	1225.1	19.3	3.6
Spot 255	3839252	4876810	256951.8	1.8	11.1	1.1	3.0	1.8	0.2	1.4	0.783061335	1396.6	17.4	1412.8	13.5	1437.3	21.0	2.8
Spot 256	5074812	6446280	413705.7	8.7	13.6	1.0	1.7	2.0	0.2	1.7	0.850051806	980.5	15.2	996.3	12.5	1031.4	21.0	4.9
Spot 257	3413811	4336393	35286.5	6.1	11.1	1.0	3.1	1.9	0.2	1.6	0.859642241	1438.5	21.0	1437.9	14.6	1437.0	18.4	-0.1
Spot 258	1336059	1697129	19537.0	5.2	13.8	1.1	1.6	2.2	0.2	2.0	0.872582263	979.1	17.8	980.5	14.1	983.5	22.3	0.4
Spot 261	2302992	2925376	14776.3	1.6	17.9	2.1	0.3	2.7	0.0	1.7	0.633509759	271.1	4.6	286.4	6.8	413.3	47.0	34.4
Spot 262	1580272	2007340	14074.4	4.1	12.6	1.0	2.1	1.7	0.2	1.4	0.795955237	1134.9	14.2	1143.8	11.8	1160.7	20.6	2.2
Spot 263	4061963	5159709	35504.4	9.3	19.4	1.3	0.3	2.1	0.0	1.7	0.808798145	229.1	3.9	232.0	4.4	260.8	28.8	12.2
Spot 264	1517311	1927364	20076.6	5.1	10.7	1.5	3.2	2.2	0.2	1.6	0.716157065	1426.6	20.2	1452.7	17.1	1491.1	29.2	4.3
Spot 265	957930	1216811	35610.7	9.8	13.0	1.0	2.0	1.8	0.2	1.4	0.813301092	1125.7	14.8	1124.0	12.0	1120.7	20.5	-0.4
Spot 266	9287926	11797988	30015.6	1.0	17.1	1.2	0.4	4.2	0.1	4.0	0.957673122	334.4	13.1	361.0	12.7	535.6	26.4	37.6
Spot 267	2412911	3065001	7640.8	1.9	20.1	2.0	0.2	3.0	0.0	1.8	0.602946044	235.7	4.2	223.3	6.0	94.8	57.0	-148.7
Spot 268	443148	562909	16246.6	0.9	12.7	1.9	2.1	2.7	0.2	2.0	0.717489619	1149.6	20.7	1148.4	18.8	1146.0	37.9	-0.3
Spot 269	1914468	2431853	11515.3	2.6	17.2	1.1	0.6	1.7	0.1	1.2	0.691067115	490.2	5.6	491.0	6.6	494.6	27.2	0.9
Spot 275	1399402	1777590	53994.8	2.9	12.6	1.4	2.2	1.9	0.2	1.3	0.6744345	1178.8	14.2	1180.4	13.6	1183.2	28.4	0.4
Spot 276	4445148	5646450	7311.6	9.7	19.1	1.2	0.3	1.9	0.0	1.4	0.755160983	271.0	3.8	266.3	4.4	225.1	28.4	-20.4
Spot 277	12078296	15342456	17717.0	0.7	20.3	1.4	0.2	2.3	0.0	1.7	0.749536541	153.3	2.6	152.3	3.2	136.4	35.2	-12.4
Spot 278	2032370	2581618	40988.6	2.1	10.5	0.8	3.5	1.7	0.3	1.5	0.872155488	1502.2	20.0	1516.1	13.5	1535.6	15.8	2.2
Spot 279	3106409	3945916	43435.1	2.3	17.4	0.9	0.7	2.0	0.1	1.8	0.893520696	518.8	9.1	517.2	8.3	510.0	20.2	-1.7
Spot 280	8049380	10224726	4790.6	1.4	18.2	2.5	0.2	4.0	0.0	2.6	0.64295427	152.9	3.9	161.8	6.1	294.8	70.8	48.1
Spot 281	3763176	4780175	43098.9	3.9	12.3	5.0	0.7	5.8	0.1	2.9	0.498582288	402.2	11.3	551.5	24.7	1227.9	98.8	67.2
Spot 282	5036450	6397551	38460.2	5.7	12.3	0.7	2.1	1.7	0.2	1.5	0.915705991	1121.0	15.8	1161.0	11.6	1236.4	13.2	9.3
Spot 283	5764016	7321742	679155.5	2.3	11.8	0.8	2.6	1.9	0.2	1.7	0.915308667	1277.0	20.2	1292.3	13.9	1317.7	14.9	3.1
Spot 285	1108060	1407513	16221.1	1.0	16.9	1.3	0.8	2.0	0.1	1.3	0.678336528	598.3	7.6	588.8	8.8	552.4	31.4	-8.3
Spot 286	2856659	3628671	6171.0	9.3	17.0	1.2	0.7	2.4	0.1	2.1	0.877021782	533.7	10.9	525.0	9.9	487.1	25.7	-9.6
Spot 287	2962748	3763431	38171.7	2.4	17.5	1.4	0.5	1.9	0.1	1.3	0.661875795	401.9	5.0	416.3	6.6	497.0	31.8	19.1
Spot 288	9999865	12702330	57913.7	5.8	14.2	0.7	1.6	1.4	0.2	1.2	0.864402488	987.4	11.4	974.4	9.0	945.0	14.8	-4.5
Spot 289	5359970	6808502	46074.5	2.2	13.7	0.6	1.6	1.5	0.2	1.3	0.905695265	963.4	12.1	982.1	9.4	1024.2	12.8	5.9
Spot 290	3350176	4255562	4856.1	1.1	18.6	1.4	0.3	2.2	0.0	1.6	0.710588162	259.5	4.0	258.1	5.0	245.5	35.5	-5.7
Spot 291	549678	698229	11869.6	3.6	12.6	1.3	2.0	1.9	0.2	1.4	0.711800851	1101.3	13.8	1122.1	13.0	1162.6	26.6	5.3
Spot 292	2932797	3725386	40622.1	4.9	12.2	0.7	2.4	1.6	0.2	1.5	0.892069924	1240.6	16.5	1244.7	11.7	1251.7	14.5	0.9
Spot 293	4167185	5293367	10297.9	2.8	16.0	2.8	0.4	3.2	0.0	1.6	0.49270762	261.7	4.1	305.6	8.6	655.7	60.5	60.1
Spot 294	941782	1196299	6999.8	4.2	13.7	0.8	1.6	2.0	0.2	1.4	0.693713903	993.8	12.7	985.4	12.5	966.5	29.1	-2.8
Spot 295	3290468	4179717	26722.7	4.6	12.5	0.7	2.3	1.5	0.2	1.3	0.885742144	1225.9	14.8	1214.0	10.6	1192.7	13.7	-2.8
Spot 296	4197259	5331568	74113.8	2.3	13.2	0.8	1.7	1.7	0.2	1.5	0.891753539	966.9	13.5	1006.5	10.8	1093.8	15.3	11.6
Spot 297	6912849	8781047	73400.6	5.6	12.0	0.8	2.6	2.2	0.2	2.0	0.93672786	1300.0	23.9	1291.9	15.8	1278.6	14.7	-1.7
Spot 298	3079784	3912096	24045.8	1.8	17.6	0.8	0.6	1.5	0.1	1.3	0.836995258	482.4	6.0	480.3	5.9	470.3	18.7	-2.6
Spot 299	6741950	8563963	25079.5	3.3	19.4	1.2	0.3	1.8	0.0	1.3	0.742732146	257.3	3.3	257.7	4.0	260.6	27.1	1.2
Spot 300	791633	1005572	8263.9	2.8	13.4	0.8	1.8	1.4	0.2	1.1	0.770072217	1047.0	10.2	1041.1	8.9	1028.8	17.7	-1.8
Spot 302	5334523	6776178	205778.4	2.6	12.6	0.8	2.1	1.5	0.2	1.3	0.871816739	1119.1	13.8	1144.7	10.6	1193.6	14.9	6.2
Spot 303	9657133	12266974	106189.8	63.2	13.1	1.0	1.7	2.0	0.2	1.7	0.866678072	956.2	15.5	1006.6	12.9	1118.0	20.1	14.5
Spot 304	757383	962066	9002.7	5.2	14.3	1.4	1.4	2.1	0.2	1.2	0.589706805	905.8	10.5	900.3	12.6	886.8	35.1	-2.2

Spot 306	1279931	1625833	8439.4	3.0	12.4	2.5	2.3	3.9	0.2	3.0	0.771889993	1232.7	33.5	1219.1	27.4	1195.2	48.5	-3.1
Spot 307	266284	338247	10521.2	1.8	17.8	5.4	0.3	6.5	0.0	3.5	0.541089391	278.4	9.5	294.6	16.5	425.3	121.1	34.5
Spot 308	1615660	2052292	26514.1	3.4	14.4	0.9	1.5	1.4	0.2	1.0	0.76412251	925.8	9.0	924.3	8.2	920.8	18.0	-0.5
Spot 309	348166	442258	28766.1	2.4	13.1	4.2	2.0	7.3	0.2	5.9	0.814532183	1119.6	60.7	1113.8	49.1	1102.4	84.2	-1.6
Spot 312	2506300	3183628	4180.6	1.0	19.2	1.2	0.3	2.5	0.0	1.9	0.774758793	266.5	5.0	255.1	5.5	151.9	36.3	-75.4
Spot 313	1887667	2397809	6485.9	1.8	19.5	1.4	0.3	2.3	0.0	1.8	0.781345906	284.3	5.1	272.2	5.6	170.0	33.9	-67.3
Spot 315	2668115	3389174	16024.4	2.0	18.9	1.6	0.3	2.3	0.0	1.6	0.709811503	274.7	4.4	277.7	5.6	302.8	36.9	9.3
Run 1 NM&A (discordant)																		
Spot 107	320765	407452	386.5	1.6	73.6	20.4	0.1	20.6	0.0	2.9	0.138089608	176.5	5.0	51.5	10.4	NA	NA	
Spot 116	11759491	14937494	279555.5	29.3	12.4	1.0	1.7	3.0	0.2	2.8	0.942040912	917.2	23.9	1008.7	19.0	1213.1	19.6	24.4
Spot 120	126835	161113	1443.5	9.4	14.0	3.1	1.9	3.8	0.2	2.1	0.556920323	1145.0	22.0	1084.6	25.2	965.3	64.0	-18.6
Spot 124	167995	213396	1124.7	4.2	16.4	8.6	1.2	9.2	0.1	3.3	0.358311434	851.4	26.2	796.0	50.6	643.8	184.3	-32.3
Spot 129	780984	992045	2728.6	1.2	11.2	4.5	2.2	4.7	0.2	1.3	0.268121465	1050.9	12.3	1174.2	32.8	1409.1	87.0	25.4
Spot 138	1270129	1613382	27815.8	8.7	16.7	3.1	2.1	27.3	0.3	27.1	0.993527419	1480.3	358.8	1158.4	190.7	597.3	67.1	-147.8
Spot 139	1261267	1602125	39460.4	5.3	9.2	1.6	2.9	2.1	0.2	1.4	0.669722027	1153.2	15.2	1392.0	16.2	1779.4	29.0	35.2
Spot 14	7994643	10155196	49427.5	32.9	12.5	1.1	1.8	1.9	0.2	1.6	0.825066365	961.0	14.3	1037.7	12.6	1203.0	21.6	20.1
Spot 142	7798954	9906621	29197.3	9.8	12.8	0.9	1.4	1.8	0.1	1.5	0.85055888	799.1	11.4	897.3	10.6	1147.6	18.6	30.4
Spot 145	489091	621268	2313.2	2.2	33.3	3.9	0.3	30.3	0.1	30.0	0.991639959	427.3	124.0	253.7	68.0	NA	NA	
Spot 153	763948	970405	4323.2	4.7	14.9	1.0	1.4	1.7	0.2	1.3	0.793186844	925.0	11.3	900.6	9.9	841.1	21.0	-10.0
Spot 155	1593312	2023905	8894.3	3.1	14.9	1.0	1.4	1.6	0.2	1.2	0.757929558	934.1	10.6	907.2	9.6	842.2	21.8	-10.9
Spot 169	343669	436545	2340.8	2.7	15.7	2.1	1.3	2.9	0.1	2.0	0.685658089	899.8	16.6	851.3	16.6	727.0	44.5	-23.8
Spot 174	1314173	1669328	35140.1	2.9	23.6	1.9	1.0	30.1	0.2	30.0	0.997998819	1024.2	284.3	707.2	154.3	NA	NA	
Spot 176	5080062	6452949	35372.2	1.3	10.2	0.9	2.5	1.8	0.2	1.6	0.858029536	1084.9	15.5	1264.3	13.1	1583.8	17.4	31.5
Spot 180	5758203	7314358	33681.1	9.6	12.2	0.8	2.6	2.1	0.2	1.9	0.931410852	1321.6	23.1	1291.0	15.2	1240.5	14.8	-6.5
Spot 183	328439	417199	462.0	1.2	43.7	21.7	0.1	22.0	0.0	3.6	0.163329473	216.7	7.6	104.0	21.7	NA	NA	
Spot 185	1210427	1537545	14118.5	2.1	13.1	1.0	2.2	1.7	0.2	1.4	0.826481657	1219.1	16.0	1176.2	12.1	1098.1	19.6	-11.0
Spot 188	1063770	1351254	4360.7	1.4	24.3	2.8	0.2	18.2	0.0	18.0	0.988146524	253.6	44.8	208.4	34.4	NA	NA	
Spot 208	534330	678733	356.1	2.2	145.9	8.5	0.0	9.4	0.0	3.8	0.410314501	166.4	6.3	24.8	2.3	NA	NA	
Spot 21	19840320	25202168	145143.1	15.3	12.7	0.9	1.7	1.4	0.2	1.1	0.790300174	922.3	9.5	996.4	8.8	1163.2	16.9	20.7
Spot 212	3530870	4485088	13309.9	3.8	21.3	3.7	0.1	30.2	0.0	30.0	0.992616125	86.8	25.9	85.4	24.8	45.8	NA	-89.6
Spot 216	1	1	1000.0	0.8	5.2	1.0	26.4	1.2	1.0	0.6	0.514146551	4445.5	19.3	3360.9	11.4	2765.6	16.4	-60.7
Spot 234	1778345	2258943	9573.9	0.7	20.5	2.7	0.2	7.2	0.0	6.6	0.928703844	200.2	13.1	195.3	12.7	137.0	62.3	-46.1
Spot 236	1357441	1724290	6911.9	3.5	13.0	0.9	2.1	1.5	0.2	1.2	0.773428252	1185.9	12.5	1164.4	10.4	1124.5	18.9	-5.5
Spot 243	432482	549361	2427.2	3.5	14.8	2.1	1.5	2.9	0.2	2.0	0.69974346	983.6	18.4	945.6	17.7	858.1	42.8	-14.6
Spot 246	323647	411113	5959.2	2.2	13.1	1.6	2.1	2.2	0.2	1.4	0.656348944	1184.8	15.4	1156.5	15.0	1103.7	32.7	-7.3
Spot 252	7466584	9484428	56829.8	13.3	12.2	1.4	1.6	2.1	0.1	1.6	0.752902823	844.0	12.3	960.9	12.8	1238.9	26.7	31.9
Spot 259	758565	963568	2421.0	2.0	36.8	11.8	0.2	32.2	0.1	30.0	0.930403714	343.7	100.4	189.7	55.8	NA	NA	
Spot 260	521672	662654	587.3	1.1	49.5	65.7	0.1	65.8	0.0	2.8	0.042454548	191.1	5.3	81.6	51.6	NA	NA	
Spot 270	615966	782431	2102.5	3.2	38.1	4.3	0.2	30.3	0.1	30.0	0.99002259	377.8	110.1	200.4	55.2	NA	NA	
Spot 271	74856	95085	2627.7	3.6	14.3	7.3	1.5	10.1	0.2	7.0	0.692353897	919.4	59.7	921.8	61.0	927.3	149.3	0.9
Spot 272	1922012	2441436	9727.8	2.0	21.6	4.0	0.1	12.8	0.0	12.1	0.949604272	79.8	9.6	77.6	9.5	10.5	NA	-662.5
Spot 273	469187	595985	2691.3	1.4	15.7	2.6	1.2	3.1	0.1	1.5	0.504219112	840.3	12.2	812.1	17.1	735.5	56.0	-14.2
Spot 274	6305121	8009080	530737.4	7.1	9.7	1.7	2.6	2.4	0.2	1.7	0.699022827	1096.6	17.2	1310.1	18.0	1679.0	32.3	34.7

Spot 284	2762276	3508782	5561.9	3.1	20.0	4.8	0.1	9.2	0.0	7.8	0.854506827	78.7	6.1	82.5	7.3	193.7	110.7	59.4
Spot 30	444788	564992	3085.4	3.1	15.4	1.4	1.4	2.0	0.2	1.4	0.694317809	930.8	12.0	885.5	11.8	774.0	30.1	-20.3
Spot 301	2547985	3236578	17665.3	12.2	13.6	0.8	1.9	1.3	0.2	1.0	0.75665171	1094.5	9.8	1074.6	8.6	1034.3	17.1	-5.8
Spot 305	535502	680221	2690.8	3.7	15.1	1.5	1.4	2.3	0.2	1.7	0.744686072	911.7	14.3	883.3	13.4	812.9	31.6	-12.2
Spot 310	437243	555408	2665.4	4.7	15.2	4.4	1.4	4.6	0.2	1.3	0.279170871	909.4	11.0	876.9	27.2	795.7	93.2	-14.3
Spot 311	3266474	4149239	130966.7	5.6	12.4	1.0	2.4	2.1	0.2	1.9	0.875769039	1279.0	21.5	1253.7	15.3	1210.6	20.1	-5.6
Spot 314	9387215	11924110	67186.6	19.8	14.3	0.7	1.6	1.4	0.2	1.2	0.871014821	1002.6	11.2	979.4	8.7	927.9	14.0	-8.1
Spot 34	4159307	5283360	10590.7	5.2	21.2	1.9	0.3	6.7	0.0	6.4	0.960814455	248.6	15.7	230.7	13.8	52.0	44.3	-377.9
Spot 4	102708	130465	1411.3	3.3	15.1	8.4	1.6	9.1	0.2	3.3	0.368179188	1062.3	32.8	982.8	57.3	809.3	177.1	-31.3
Spot 41	255835	324975	2012.4	0.5	5.3	5.6	1.1	8.9	0.0	6.9	0.772572503	276.5	18.5	776.6	48.2	2743.1	92.7	89.9
Spot 43	1012479	1286102	2310.9	3.5	12.1	9.3	0.2	15.4	0.0	12.3	0.798119262	111.3	13.5	184.3	25.9	1266.8	181.3	91.2
Spot 47	376911	478771	5029.1	2.2	13.6	4.1	2.0	5.8	0.2	4.1	0.708924665	1179.2	44.5	1128.4	39.7	1031.9	83.0	-14.3
Spot 5	743769	944773	6173.3	5.0	13.1	1.1	1.5	1.7	0.1	1.3	0.762918561	857.5	10.6	927.4	10.5	1097.4	22.3	21.9
Spot 52	2124859	2699103	179317.0	3.1	8.2	0.9	4.2	2.4	0.2	2.2	0.923158027	1431.1	28.7	1674.7	19.9	1995.0	16.6	28.3
Spot 54	7532565	9568241	302134.2	10.9	7.9	2.7	3.4	3.2	0.2	1.7	0.534866094	1163.9	18.3	1514.3	25.3	2045.7	48.0	43.1
Spot 59	1985097	2521570	600623.7	2.5	15.2	3.0	1.5	8.6	0.2	8.0	0.935451297	970.1	72.2	920.3	51.9	802.5	63.5	-20.9
Spot 74	1118048	1420201	24963.2	1.2	18.2	3.1	0.7	12.8	0.1	12.4	0.969843546	608.5	72.0	567.8	55.6	407.9	69.7	-49.2
Spot 82	3970370	5043363	35580.2	1.4	30.3	1.5	0.2	30.0	0.0	30.0	0.998781951	269.3	79.1	180.3	49.7	NA	NA	
Spot 91	576061	731742	10198.4	3.6	14.3	1.8	1.6	2.8	0.2	2.1	0.771302856	977.8	19.4	960.4	17.2	920.7	36.3	-6.2
Spot 95	710574	902606	3243.3	1.8	14.0	1.0	1.8	1.6	0.2	1.3	0.805886923	1055.0	12.8	1027.8	10.5	970.3	19.7	-8.7
Run 2																		
Spot 2	2249609	1801391	4980.5	0.9	19.3	1.6	0.3	2.6	0.0	2.1	0.779794433	258.8	5.2	246.6	5.8	131.3	38.9	-97.1
Spot 3	1781509	1426556	31585.6	3.5	12.5	1.3	2.1	2.0	0.2	1.5	0.745129072	1145.9	15.8	1158.9	14.0	1183.3	26.6	3.2
Spot 4	3012419	2412216	7845.2	1.1	17.0	4.6	0.1	5.5	0.0	2.7	0.485531368	69.8	1.9	82.9	4.4	479.5	106.7	85.4
Spot 5	1976334	1582564	628301.4	2.4	13.1	0.7	1.9	1.8	0.2	1.6	0.926389511	1063.6	16.0	1076.6	11.7	1103.1	13.2	3.6
Spot 6	1313257	1051600	20255.5	2.8	16.0	4.8	0.4	6.2	0.0	4.0	0.638786023	284.6	11.1	330.6	17.6	668.0	102.7	57.4
Spot 7	3553393	2845405	79084.6	3.2	13.0	0.8	1.8	1.8	0.2	1.6	0.892072532	1027.5	15.0	1056.6	11.6	1117.3	15.9	8.0
Spot 8	778407	623315	4950.1	2.1	12.3	1.7	2.2	2.1	0.2	1.3	0.605656981	1204.4	14.2	1186.2	15.0	1153.2	33.8	-4.4
Spot 9	7169075	5740689	128810.6	7.5	12.6	1.1	2.1	2.3	0.2	2.0	0.870032979	1116.4	20.5	1145.1	15.8	1200.0	22.3	7.0
Spot 10	2107542	1687629	11407.4	1.2	17.7	1.9	0.3	2.8	0.0	1.8	0.657223114	276.1	4.9	293.5	7.0	434.0	46.3	36.4
Spot 11	5471560	4381391	24760.0	10.6	17.8	1.1	0.4	1.8	0.0	1.4	0.796337482	299.2	4.1	317.2	4.8	451.6	23.9	33.7
Spot 13	1231378	986035	12872.2	2.9	13.2	0.8	1.9	1.7	0.2	1.5	0.879371792	1109.1	14.9	1096.8	11.2	1072.5	15.9	-3.4
Spot 14	445834	357005	9264.7	2.8	12.3	3.3	2.2	4.5	0.2	3.0	0.675546269	1168.8	32.4	1179.6	31.3	1199.3	65.3	2.5
Spot 15	2847654	2280280	9281.2	6.4	17.1	2.2	0.6	3.4	0.1	2.6	0.767004985	483.9	12.2	486.8	13.2	500.7	48.1	3.4
Spot 17	3053814	2445364	25268.1	2.1	12.6	1.0	2.1	1.8	0.2	1.4	0.809167994	1112.4	14.6	1135.7	12.1	1180.6	20.5	5.8
Spot 19	338310	270904	31678.5	2.0	14.7	3.0	1.3	4.1	0.1	2.7	0.676348089	854.5	22.0	857.7	23.5	865.9	62.1	1.3
Spot 20	3646842	2920236	34439.3	15.9	14.0	0.8	1.5	1.4	0.2	1.2	0.82640368	907.3	9.8	928.1	8.5	977.8	16.0	7.2
Spot 21	2682412	2147961	43131.2	0.9	20.0	1.6	0.2	2.1	0.0	1.4	0.639775782	185.9	2.5	186.9	3.7	200.2	38.2	7.1
Spot 22	3824067	3062150	10525.1	3.0	18.2	1.6	0.3	2.2	0.0	1.5	0.68722131	263.9	3.9	275.2	5.3	373.1	36.0	29.3
Spot 23	4922451	3941689	91234.2	8.4	19.4	1.5	0.3	1.8	0.0	1.1	0.591402128	242.9	2.6	245.6	4.0	271.8	33.8	10.6
Spot 24	3723322	2981477	7237.5	5.9	19.7	1.7	0.3	3.2	0.0	1.9	0.601849011	273.2	5.2	261.2	7.4	154.8	60.1	-76.5
Spot 25	1828255	1463989	18225.0	11.4	12.9	1.0	2.0	1.6	0.2	1.3	0.794642377	1086.4	13.0	1100.3	11.0	1127.8	19.8	3.7
Spot 26	2297968	1840115	4006.9	1.3	19.8	1.0	0.3	1.7	0.0	1.3	0.782119058	286.1	3.7	262.6	3.9	57.3	25.2	-399.5

Spot 27	1828362	1464074	30670.7	1.8	17.7	1.1	0.6	1.8	0.1	1.5	0.809411142	479.6	6.8	478.3	6.9	472.3	23.7	-1.5
Spot 28	831099	665509	1205599.6	1.1	16.1	2.4	0.8	2.9	0.1	1.6	0.555477633	560.6	8.6	586.2	12.8	686.7	50.9	18.4
Spot 29	861258	689658	37174.4	3.1	13.3	1.3	1.7	1.9	0.2	1.4	0.729784324	966.4	12.8	1001.9	12.4	1080.5	26.7	10.6
Spot 31	2221370	1778779	7591.4	2.0	15.9	1.0	0.7	2.1	0.1	1.8	0.864397274	519.0	8.9	543.6	8.7	648.2	22.3	19.9
Spot 32	3229105	2585729	78545.5	2.2	9.4	1.1	1.4	2.9	0.1	2.6	0.918677767	575.3	14.5	879.9	16.9	1751.3	20.8	67.2
Spot 33	1848309	1480047	31547.8	1.7	20.4	1.9	0.3	3.5	0.0	3.0	0.851112368	305.7	9.0	287.7	8.9	144.2	43.6	-112.0
Spot 34	1176363	941981	34739.6	1.3	13.3	1.9	1.8	5.3	0.2	4.9	0.929712677	1042.6	47.2	1051.8	34.5	1070.9	39.0	2.6
Spot 35	991086	793619	11968.8	1.5	12.6	1.1	2.0	3.4	0.2	3.2	0.944300445	1096.8	32.5	1124.6	23.2	1178.6	22.2	6.9
Spot 36	2072992	1659963	5845.0	1.4	19.3	1.2	0.3	2.4	0.0	1.7	0.676222468	255.2	4.1	248.3	5.4	183.4	42.0	-39.1
Spot 37	7992578	6400115	4688.5	0.8	19.9	1.3	0.2	1.9	0.0	1.3	0.683940484	163.5	2.1	157.8	2.7	72.5	32.5	-125.7
Spot 38	2995291	2398501	6226.5	14.5	19.3	1.5	0.3	2.3	0.0	1.5	0.644854669	233.1	3.4	229.0	4.7	187.5	41.1	-24.3
Spot 39	3642641	2916871	54221.8	2.2	16.7	1.1	0.8	2.1	0.1	1.8	0.856279479	565.1	9.6	574.8	9.1	613.6	23.2	7.9
Spot 40	555794	445056	17427.6	1.8	12.3	1.3	2.1	2.7	0.2	2.3	0.877314056	1123.6	24.0	1159.2	18.4	1226.4	25.0	8.4
Spot 41	4155371	3327444	78613.1	1.7	6.4	1.0	9.7	2.3	0.4	2.0	0.90287016	2366.4	40.4	2402.9	20.8	2433.9	16.5	2.8
Spot 42	1452697	1163257	3143.4	0.6	19.2	3.9	0.2	4.3	0.0	1.3	0.305940608	225.4	2.9	214.4	8.3	94.6	96.5	-138.4
Spot 43	8429402	6749905	53994.9	3.7	12.0	0.8	2.5	1.6	0.2	1.4	0.873558194	1287.9	16.7	1286.3	11.9	1283.5	15.5	-0.3
Spot 44	2020669	1618065	14615.6	1.3	18.9	3.0	0.3	4.3	0.0	3.1	0.716622816	287.5	8.7	289.5	10.8	305.9	68.3	6.0
Spot 45	1651219	1322226	37355.3	1.2	10.9	1.4	2.9	2.4	0.2	2.0	0.817537076	1340.1	24.2	1394.8	18.5	1479.5	26.7	9.4
Spot 46	561033	449252	1599.4	1.0	17.5	4.9	0.3	5.9	0.0	2.8	0.475990693	257.6	7.1	244.8	12.8	123.1	121.7	-109.3
Spot 47	2907204	2327965	14878.4	4.0	13.0	1.0	1.8	2.0	0.2	1.8	0.868337781	1011.1	16.4	1047.3	13.2	1123.8	20.0	10.0
Spot 48	1015100	812849	1923.7	1.7	18.0	3.1	0.3	3.5	0.0	1.4	0.402891634	292.1	4.0	273.9	8.3	121.1	74.7	-141.2
Spot 49	5583379	4470931	183086.3	2.8	17.4	1.1	0.6	1.5	0.1	1.1	0.69596363	440.4	4.6	455.6	5.7	532.9	24.3	17.3
Spot 50	1205678	965456	13316.8	2.0	16.9	1.6	0.7	2.3	0.1	1.6	0.695153714	553.2	8.6	554.7	10.0	560.6	36.6	1.3
Spot 51	2255576	1806169	19148.0	1.4	18.8	2.4	0.3	2.9	0.0	1.6	0.550197513	278.1	4.3	283.7	7.1	330.5	54.6	15.9
Spot 52	506042	405217	34710.3	2.4	14.5	1.4	1.4	2.3	0.2	1.8	0.792260439	909.4	15.5	908.8	13.9	907.2	29.0	-0.2
Spot 54	4810494	3852038	6854.1	19.2	19.7	1.4	0.3	2.2	0.0	1.3	0.603220273	240.8	3.1	232.8	4.5	152.8	40.3	-57.5
Spot 55	2391789	1915243	27489.9	3.2	17.7	1.6	0.7	2.8	0.1	2.3	0.809718192	539.5	11.7	526.3	11.4	469.7	36.2	-14.9
Spot 56	1398897	1120177	6082.5	0.8	18.2	4.2	0.2	5.7	0.0	3.7	0.649610124	183.8	6.8	194.5	10.2	325.6	99.1	43.5
Spot 57	7278796	5828549	73559.8	7.0	14.8	0.9	0.6	1.7	0.1	1.4	0.857048346	384.8	5.3	460.4	6.1	857.6	17.7	55.1
Spot 58	2622385	2099894	34731.3	4.3	12.6	1.0	2.1	2.1	0.2	1.9	0.874172343	1132.4	19.3	1150.4	14.6	1184.3	20.4	4.4
Spot 59	3906649	3128277	21173.7	9.1	15.9	1.2	0.9	2.0	0.1	1.6	0.784619391	618.2	9.4	633.1	9.5	686.7	26.8	10.0
Spot 60	2519019	2017123	38065.4	0.4	19.5	2.5	0.2	3.9	0.0	3.0	0.77401739	182.1	5.4	186.9	6.7	248.7	56.9	26.8
Spot 61	3854823	3086778	17167.9	4.4	17.7	1.4	0.6	2.1	0.1	1.5	0.721058669	451.6	6.6	451.6	7.7	451.7	32.4	0.0
Spot 62	2593200	2076524	103033.4	2.0	12.0	0.9	2.3	1.5	0.2	1.2	0.800847853	1163.7	12.7	1203.8	10.5	1276.4	17.3	8.8
Spot 63	9131757	7312321	37372.4	0.9	19.4	1.9	0.3	3.0	0.0	2.4	0.784712488	269.0	6.3	268.0	7.2	259.1	43.4	-3.8
Spot 64	6455259	5169095	49867.8	3.0	12.2	0.9	2.3	1.6	0.2	1.4	0.844867261	1190.1	15.0	1211.2	11.5	1249.0	17.1	4.7
Spot 66	6117215	4898404	21758.2	7.3	12.3	1.1	2.1	1.9	0.2	1.6	0.838252665	1108.8	16.5	1144.9	13.3	1214.1	20.8	8.7
Spot 67	3325828	2663181	12425.8	1.2	17.5	3.6	0.2	3.9	0.0	1.4	0.367727579	155.0	2.2	175.3	6.3	458.2	81.0	66.2
Spot 68	8983843	7193878	294661.2	11.3	13.4	0.8	1.8	1.4	0.2	1.1	0.80333932	1048.8	11.1	1055.4	9.4	1069.1	17.0	1.9
Spot 69	4388956	3514488	69531.8	23.5	19.5	1.2	0.3	1.9	0.0	1.5	0.777539422	250.8	3.7	250.4	4.3	246.7	28.1	-1.6
Spot 70	3279124	2625783	28361.7	1.8	17.3	2.0	0.4	3.1	0.0	2.3	0.757265515	292.1	6.7	317.5	8.4	509.1	44.5	42.6
Spot 71	1416774	1134492	60377.8	3.4	12.2	1.0	2.3	3.2	0.2	3.1	0.948083636	1179.3	32.9	1204.4	22.7	1249.9	20.0	5.7
Spot 72	2414908	1933755	4770.7	1.6	20.4	3.5	0.1	4.0	0.0	1.9	0.480911683	73.5	1.4	71.5	2.8	5.7	NA	

Spot 73	6481508	5190115	177851.8	1.4	19.0	1.1	0.3	1.8	0.0	1.5	0.793049847	276.6	3.9	281.7	4.5	323.9	25.4	14.6
Spot 74	973619	779632	13662.5	1.9	9.3	1.0	4.3	2.6	0.3	2.4	0.924125901	1642.5	35.3	1688.8	21.7	1746.9	18.5	6.0
Spot 76	6780348	5429413	2490.2	79.8	13.9	5.8	0.2	6.2	0.0	1.1	0.177132538	113.1	1.2	152.7	8.8	822.8	128.0	86.3
Spot 77	2907199	2327961	6796.0	4.0	17.8	2.4	0.4	3.2	0.0	1.9	0.592043175	308.7	5.6	316.2	8.6	371.6	57.2	16.9
Spot 78	6828963	5468342	25876.8	1.1	19.2	1.2	0.3	1.8	0.0	1.3	0.727733956	275.7	3.6	274.9	4.4	268.5	29.0	-2.7
Spot 79	4251381	3404324	29564.8	1.1	19.9	1.2	0.2	1.9	0.0	1.4	0.763717397	183.9	2.6	184.4	3.2	191.7	28.3	4.1
Spot 80	1771919	1418877	5292.0	0.9	13.5	4.1	0.8	5.1	0.1	2.4	0.46098127	490.9	11.2	587.2	22.9	979.8	92.8	49.9
Spot 81	7251307	5806536	116209.7	1.1	17.6	1.0	0.6	1.6	0.1	1.2	0.763465759	451.3	5.3	459.0	5.9	497.2	22.6	9.2
Spot 82	1402517	1123075	10425.6	1.1	13.4	0.8	1.8	1.8	0.2	1.5	0.81399235	1045.3	14.5	1040.6	12.0	1030.7	21.7	-1.4
Spot 84	1693666	1356215	262997.1	3.8	11.6	0.9	2.8	1.5	0.2	1.3	0.815508123	1343.6	15.2	1345.0	11.4	1347.1	17.1	0.3
Spot 85	3772782	3021082	40794.7	2.4	12.6	0.7	2.1	1.5	0.2	1.3	0.882760803	1118.6	13.3	1139.2	10.1	1178.6	13.7	5.1
Spot 86	1744549	1396961	29878.9	3.7	12.6	1.0	2.2	2.6	0.2	2.4	0.928698493	1157.7	25.3	1167.8	17.8	1186.5	18.8	2.4
Spot 87	4496243	3600399	2414920.3	5.6	13.7	1.2	1.5	2.1	0.1	1.7	0.81967382	870.2	14.0	915.9	12.6	1027.8	24.3	15.3
Spot 88	7279147	5828830	180477.2	6.3	17.6	1.2	0.6	1.9	0.1	1.5	0.770748712	464.9	6.5	469.4	7.1	491.7	26.6	5.5
Spot 89	1821661	1458708	27355.0	5.7	12.7	1.1	2.1	2.5	0.2	2.3	0.902853293	1120.4	23.2	1135.9	17.1	1165.4	21.3	3.9
Spot 90	1301252	1041987	72829.2	3.1	15.9	2.5	1.0	3.2	0.1	2.0	0.628670262	707.1	13.4	706.3	16.2	703.9	52.5	-0.4
Spot 92	3580126	2866812	11913.4	0.7	14.5	2.4	0.9	3.4	0.1	2.2	0.663065317	612.8	13.1	670.0	16.6	867.4	52.4	29.4
Spot 93	1619591	1296899	41318.4	1.6	13.2	1.7	1.8	2.7	0.2	2.1	0.780613184	1010.9	19.7	1035.1	17.5	1086.6	33.8	7.0
Spot 94	10837800	8678447	138642.2	4.5	12.4	0.9	2.4	1.5	0.2	1.2	0.799910427	1238.9	13.8	1231.1	10.9	1217.4	18.0	-1.8
Spot 95	5847283	4682254	7975.7	14.2	18.1	1.6	0.3	2.3	0.0	1.4	0.594456354	234.6	3.1	245.6	5.0	351.7	41.6	33.3
Spot 97	458214	366918	4179.9	2.0	12.3	1.4	1.9	2.6	0.2	1.9	0.712752758	1057.2	18.1	1088.0	17.4	1150.0	36.3	8.1
Spot 98	2503956	2005061	11919.6	4.1	19.8	1.5	0.3	2.4	0.0	1.7	0.712526723	259.6	4.4	250.1	5.4	162.7	40.2	-59.5
Spot 99	3086258	2471344	45899.1	4.0	10.6	1.0	3.4	1.8	0.3	1.5	0.833564031	1500.6	20.5	1505.3	14.4	1511.8	19.1	0.7
Spot 100	6084559	4872254	21614.8	2.3	19.5	1.8	0.3	2.8	0.0	2.1	0.759115864	296.1	6.1	289.2	7.0	233.9	41.8	-26.6
Spot 101	4390392	3515638	24986.4	0.8	18.2	1.8	0.3	2.5	0.0	1.7	0.681865088	261.9	4.4	276.1	6.1	398.3	41.3	34.2
Spot 102	1680724	1345852	59954.2	3.7	11.6	0.9	2.8	1.6	0.2	1.3	0.803223506	1359.5	15.4	1355.4	11.7	1349.1	18.0	-0.8
Spot 104	1529515	1224770	74947.8	3.2	10.4	0.9	3.5	1.7	0.3	1.4	0.827778211	1518.6	18.8	1534.1	13.3	1555.4	17.7	2.4
Spot 105	1827167	1463117	19388.7	2.5	9.7	1.0	4.1	1.9	0.3	1.6	0.84291796	1653.3	22.8	1659.7	15.1	1667.8	18.4	0.9
Spot 107	3056070	2447171	34233.5	4.5	12.8	1.0	2.1	2.0	0.2	1.7	0.865313945	1141.7	17.8	1145.0	13.5	1151.3	19.6	0.8
Spot 108	2822038	2259767	6134.8	1.5	18.8	1.3	0.3	2.1	0.0	1.7	0.770392935	273.1	4.4	270.0	5.1	243.6	31.5	-12.1
Spot 109	1272053	1018606	4619.7	1.8	19.2	2.4	0.3	2.7	0.0	1.1	0.415227206	240.3	2.6	231.7	5.6	144.8	57.6	-66.0
Spot 110	1002496	802756	5995.0	2.1	12.6	1.4	2.0	2.4	0.2	1.9	0.794231461	1123.3	19.3	1126.1	16.0	1131.5	28.4	0.7
Spot 111	2134864	1709508	107018.9	2.4	13.3	1.1	1.8	1.8	0.2	1.5	0.797908503	1020.2	13.7	1041.5	11.9	1086.3	22.0	6.1
Spot 112	15383158	12318176	17311.4	6.0	13.1	1.5	1.7	2.7	0.2	2.2	0.80664046	978.4	19.6	1014.9	17.2	1094.6	31.6	10.6
Spot 113	2490252	1994087	58308.8	0.7	17.5	1.2	0.7	1.9	0.1	1.5	0.786378798	519.2	7.4	517.8	7.7	511.7	25.8	-1.5
Spot 114	1515988	1213938	15465.5	0.9	17.7	3.2	0.3	3.8	0.0	2.1	0.542184806	274.6	5.6	294.1	9.8	452.4	71.4	39.3
Spot 115	594460	476018	7019.2	2.0	13.5	1.2	1.5	2.5	0.2	1.7	0.68568871	927.2	15.0	948.6	15.6	998.5	37.5	7.1
Spot 116	2443512	1956660	28210.7	2.2	17.9	2.7	0.5	4.1	0.1	3.0	0.738218491	390.9	11.4	399.8	13.4	451.6	60.8	13.4
Spot 117	1499523	1200754	7720.1	1.5	19.2	1.9	0.3	2.5	0.0	1.6	0.634899552	276.5	4.3	271.5	5.9	228.7	44.5	-20.9
Spot 118	2303474	1844523	18811.0	6.3	18.2	2.8	0.3	3.5	0.0	2.1	0.612976041	242.5	5.1	257.3	7.9	394.7	61.9	38.6
Spot 119	1725406	1381631	330852.4	1.5	12.9	0.8	2.2	1.3	0.2	1.0	0.778382078	1202.2	10.9	1182.1	8.9	1145.5	16.0	-4.9
Spot 120	1764496	1412933	41455.0	1.0	11.4	0.8	2.9	1.4	0.2	1.1	0.800464975	1368.6	13.6	1375.7	10.3	1386.8	15.8	1.3
Spot 122	733055	586999	973.5	1.6	18.1	4.8	0.2	6.1	0.0	3.6	0.592879258	281.2	9.9	225.0	12.2	NA	NA	

Spot 124	2735317	2190325	24880.4	6.6	14.8	1.7	0.5	3.1	0.1	2.5	0.832232308	369.6	9.1	444.6	11.0	854.3	35.2	56.7
Spot 125	3408850	2729662	7932.4	4.3	17.5	2.0	0.4	2.6	0.1	1.7	0.637251557	329.7	5.4	343.6	7.7	438.8	45.1	24.9
Spot 126	1844511	1477005	5130.2	0.9	17.7	2.6	0.3	3.3	0.0	1.8	0.560101346	263.9	4.7	275.4	7.8	374.2	60.6	29.5
Spot 127	1110391	889154	1323.6	2.1	16.2	2.8	0.2	3.3	0.0	1.7	0.501062891	166.8	2.8	172.2	5.3	246.0	66.8	32.2
Spot 128	1763197	1411893	8437.1	4.9	14.1	1.4	1.5	2.1	0.2	1.5	0.699398894	915.7	12.6	918.4	12.8	925.2	31.0	1.0
Spot 129	8485092	6794499	22132.7	1.7	13.0	0.8	2.0	1.6	0.2	1.4	0.840202072	1104.3	13.9	1111.3	11.0	1125.0	17.6	1.8
Spot 130	2826248	2263139	1109.7	1.5	19.3	3.6	0.1	4.2	0.0	1.9	0.444793003	82.4	1.5	67.4	2.7	NA	NA	
Spot 131	5610955	4493013	4069.0	6.2	15.5	1.5	0.3	1.9	0.0	1.2	0.627605884	215.2	2.6	257.5	4.4	662.2	32.2	67.5
Spot 132	2039166	1632877	14523.9	1.3	19.2	1.8	0.3	2.4	0.0	1.5	0.639642084	278.4	4.2	277.8	5.9	272.5	42.6	-2.1
Spot 133	1766417	1414471	10452.8	3.0	12.2	1.5	2.0	2.0	0.2	1.3	0.623870841	1064.6	12.4	1120.4	13.7	1230.2	31.0	13.5
Spot 134	2944534	2357857	7472.4	2.2	26.8	2.8	0.1	3.6	0.0	2.4	0.651889522	93.5	2.2	70.7	2.5	NA	NA	
Spot 135	712434	570487	22688.8	1.8	17.9	2.7	0.7	3.8	0.1	2.7	0.716603831	564.7	14.9	541.0	16.1	442.4	59.5	-27.6
Spot 136	2136820	1711074	175197.7	1.6	18.2	2.1	0.3	3.2	0.0	2.3	0.736509924	268.0	6.1	285.4	7.9	431.0	47.6	37.8
Spot 137	2282254	1827532	83212.1	3.1	14.1	1.1	1.5	1.8	0.2	1.4	0.791327551	903.3	12.0	923.8	10.9	973.1	22.4	7.2
Spot 139	2458065	1968313	6498.7	1.2	12.2	4.4	0.5	4.7	0.0	1.2	0.260338333	268.2	3.2	393.3	15.3	1216.0	88.9	77.9
Spot 140	7418979	5940801	585057.1	4.3	12.6	0.9	2.2	1.4	0.2	1.0	0.766888279	1184.3	11.2	1188.0	9.5	1194.7	17.1	0.9
Spot 141	956428	765867	28618.5	3.1	14.5	1.2	1.3	1.7	0.1	1.2	0.694658529	801.5	8.9	828.1	9.7	900.2	25.3	11.0
Spot 142	1885663	1509958	135790.1	3.2	12.3	0.7	2.4	1.4	0.2	1.2	0.843815112	1220.4	12.8	1231.4	9.7	1250.7	14.3	2.4
Spot 143	417971	334693	885.0	3.3	16.4	4.4	0.2	6.6	0.0	1.6	0.236515259	215.8	3.3	193.6	11.7	NA	NA	
Spot 144	886569	709927	4243.2	0.9	19.0	3.0	0.3	4.8	0.0	3.4	0.707665938	276.3	9.1	266.6	11.2	182.3	78.7	-51.5
Spot 146	383691	307243	466868.7	2.5	13.2	2.0	1.9	3.5	0.2	2.9	0.819041945	1092.8	29.2	1094.8	23.8	1098.7	40.7	0.5
Spot 147	2013616	1612417	5905.3	0.7	20.0	1.9	0.3	5.5	0.0	5.1	0.933857331	302.4	15.0	280.0	13.3	96.2	46.2	-214.3
Spot 148	2767576	2216157	12537.3	1.2	18.5	2.2	0.3	2.8	0.0	1.7	0.6030528	260.4	4.3	268.6	6.5	341.1	49.9	23.6
Spot 149	1322602	1059084	20094.1	1.8	18.3	2.9	0.3	3.5	0.0	1.9	0.542155654	279.7	5.2	291.0	8.8	382.8	66.0	26.9
Spot 150	9542573	7641285	21995.0	1.8	18.8	0.9	0.4	1.6	0.1	1.3	0.823429877	338.4	4.3	336.2	4.5	321.3	20.3	-5.3
Spot 151	1631227	1306217	1585.4	0.8	19.2	1.4	0.3	2.2	0.0	1.6	0.726222233	279.3	4.4	236.3	4.7	NA	NA	
Spot 152	1196760	958314	2785.5	1.0	18.3	2.6	0.3	4.3	0.0	2.6	0.622784531	249.4	6.5	243.3	9.2	184.9	77.5	-34.9
Spot 153	3849212	3082285	40604.6	0.8	12.8	0.8	2.0	1.6	0.2	1.4	0.867641975	1103.8	14.3	1122.6	11.0	1159.1	16.0	4.8
Spot 155	3994462	3198595	21159.4	1.8	17.3	0.7	0.6	1.3	0.1	1.0	0.808178954	444.7	4.5	455.3	4.8	509.1	16.8	12.6
Spot 158	3642806	2917004	10218.7	13.3	19.5	1.3	0.3	1.9	0.0	1.4	0.733913276	242.1	3.3	238.0	4.0	198.2	29.7	-22.2
Spot 159	4476045	3584226	137914.1	9.2	7.2	1.3	1.9	6.0	0.1	5.9	0.975762616	623.4	34.9	1096.3	40.4	2212.8	22.8	71.8
Spot 160	693306	555170	7967.1	3.3	14.1	1.6	1.4	2.6	0.1	2.0	0.774845219	870.0	16.1	883.8	15.1	918.4	33.2	5.3
Spot 162	4834612	3871351	32479.7	2.6	11.4	0.8	2.8	1.4	0.2	1.1	0.809732093	1346.6	13.4	1359.0	10.2	1378.6	15.3	2.3
Spot 163	1108946	887997	2103.4	1.3	19.7	4.0	0.2	6.3	0.0	3.0	0.475404056	206.6	6.1	184.0	10.6	NA	NA	
Spot 164	689461	552091	4429.7	3.4	13.8	1.2	1.5	3.0	0.2	1.5	0.508438771	921.9	13.0	925.3	18.0	933.3	52.5	1.2
Spot 165	1513528	1211969	15943.4	1.1	11.6	0.8	2.7	1.5	0.2	1.3	0.844205729	1298.6	15.2	1317.6	11.3	1348.5	15.9	3.7
Spot 166	1503201	1203699	10589.9	2.2	19.1	1.6	0.3	2.3	0.0	1.6	0.700283946	284.0	4.5	281.8	5.6	263.8	37.6	-7.7
Spot 167	3651318	2923819	403580.2	3.6	13.6	1.1	1.6	1.9	0.2	1.5	0.797377418	946.3	13.1	977.6	11.7	1048.8	22.7	9.8
Spot 168	3918738	3137958	238224.2	8.6	18.3	1.7	0.3	2.2	0.0	1.4	0.623610415	275.9	3.8	291.3	5.7	416.7	39.1	33.8
Spot 169	499822	400236	10461.8	2.3	13.7	2.3	1.4	3.5	0.1	2.6	0.754640006	834.9	20.5	879.8	20.4	994.5	46.3	16.1
Spot 171	945488	757107	8515.5	1.0	16.8	1.7	0.6	2.7	0.1	2.1	0.777072547	444.2	9.2	460.9	10.2	545.1	37.7	18.5
Spot 172	3955098	3167073	35724.1	2.7	11.4	0.7	2.4	1.6	0.2	1.5	0.899009888	1155.7	15.4	1236.4	11.6	1379.9	13.7	16.2
Spot 173	1200072	960966	14908.0	2.7	12.3	1.0	2.3	1.8	0.2	1.4	0.802719644	1216.1	15.8	1219.8	12.6	1226.2	20.8	0.8

Spot 174	1448604	1159980	39599.3	1.4	13.5	2.2	1.8	3.5	0.2	2.7	0.784115883	1071.0	27.0	1061.8	23.0	1042.9	43.7	-2.7
Spot 176	1497845	1199410	17861.0	1.5	18.4	1.3	0.4	2.4	0.1	2.0	0.832194637	337.9	6.6	341.7	6.9	367.4	29.9	8.0
Spot 177	4689006	3754756	30436.1	2.4	13.5	0.9	1.8	1.9	0.2	1.7	0.870086012	1024.7	15.8	1029.9	12.4	1041.0	19.1	1.6
Spot 178	5715340	4576600	36419.5	2.4	13.9	2.0	0.5	2.7	0.1	1.8	0.676432845	323.6	5.8	418.6	9.3	982.4	40.8	67.1
Spot 179	3097916	2480679	39351.6	2.1	13.0	0.8	1.9	1.8	0.2	1.6	0.892290812	1050.6	15.8	1076.4	12.1	1129.1	16.4	7.0
Spot 181	1664523	1332879	3979.8	1.4	17.8	1.3	0.5	2.3	0.1	1.8	0.777882479	464.2	8.0	441.5	8.3	324.7	32.9	-43.0
Spot 182	1849264	1480811	463138.5	4.6	14.0	1.2	1.5	2.3	0.2	1.9	0.837453752	915.6	16.2	934.7	13.8	980.0	25.2	6.6
Spot 183	2540435	2034272	35002.9	1.5	11.9	1.0	2.5	1.9	0.2	1.7	0.856449703	1261.4	19.1	1278.0	14.1	1305.9	19.5	3.4
Spot 184	952310	762569	72459.2	3.2	11.2	1.5	2.6	2.0	0.2	1.3	0.651133168	1244.8	14.6	1308.2	14.6	1413.9	28.8	12.0
Spot 186	9085953	7275643	35329.8	26.0	13.7	1.5	1.1	2.1	0.1	1.4	0.682278824	679.4	9.1	762.3	11.1	1013.7	30.8	33.0
Spot 187	2704619	2165743	11446.4	3.3	14.7	1.5	0.9	3.0	0.1	2.5	0.830739516	573.7	13.7	633.0	14.2	851.1	34.8	32.6
Spot 188	798627	639507	1691.9	1.2	29.1	2.1	0.2	11.8	0.1	2.0	0.167911383	409.9	7.8	211.7	22.5	NA	NA	
Spot 189	978015	783153	17449.9	2.2	11.5	1.0	2.5	2.8	0.2	2.6	0.926562949	1235.2	29.0	1277.4	20.2	1349.0	20.2	8.4
Spot 190	1947198	1559233	5086.2	1.2	18.5	2.4	0.3	3.5	0.0	2.4	0.673261947	299.4	6.9	294.4	9.0	255.6	59.7	-17.1
Spot 191	5120619	4100373	8338.5	2.3	19.0	0.9	0.4	1.4	0.1	1.2	0.803578186	398.4	4.5	376.8	4.5	246.3	19.8	-61.8
Spot 193	9245908	7403728	169908.0	3.3	12.8	1.1	2.1	2.6	0.2	2.4	0.914724844	1126.1	24.7	1138.1	17.9	1160.9	21.0	3.0
Spot 194	841593	673912	155404.6	2.7	13.9	2.2	1.5	3.3	0.1	2.5	0.756856681	900.8	21.0	927.7	20.1	992.1	43.9	9.2
Spot 195	2720698	2178618	7976.2	1.1	19.8	1.5	0.3	2.5	0.0	1.6	0.632576215	281.4	4.4	267.1	6.0	143.0	46.3	-96.9
Spot 196	4226763	3384611	3508.9	1.4	19.2	1.6	0.3	2.8	0.0	1.6	0.558024844	248.5	3.8	235.0	5.8	102.6	54.7	-142.1
Spot 197	4124941	3303077	9681.8	1.1	19.2	1.1	0.3	1.9	0.0	1.5	0.773502767	271.2	4.0	267.5	4.6	235.1	28.5	-15.3
Spot 198	3561050	2851537	37594.8	5.3	11.9	0.6	2.6	1.3	0.2	1.2	0.909149819	1311.1	14.5	1303.3	9.9	1290.4	10.9	-1.6
Spot 199	1838363	1472082	46845.4	3.2	7.2	0.9	7.4	1.5	0.4	1.2	0.812208549	2114.1	22.5	2163.7	13.7	2211.0	15.5	4.4
Spot 200	6910253	5533435	20998.4	3.3	11.6	0.7	2.2	1.8	0.2	1.6	0.9129273	1081.4	16.1	1168.1	12.3	1332.6	14.0	18.8
Spot 201	9628872	7710389	121685.5	8.0	14.4	0.8	1.4	1.7	0.1	1.5	0.875539514	864.9	12.2	882.9	10.1	928.2	17.1	6.8
Spot 202	5325128	4264135	33463.7	6.9	14.1	1.0	1.5	1.5	0.2	1.1	0.746565997	936.4	9.9	941.4	9.3	953.2	20.6	1.8
Spot 203	10922452	8746233	7952.5	29.1	13.7	0.8	1.4	1.6	0.1	0.8	0.50278154	854.4	6.6	889.8	9.8	978.8	29.0	12.7
Spot 204	4590856	3676161	11713.0	1.3	19.0	1.6	0.3	2.0	0.0	1.3	0.627068004	275.9	3.4	275.6	4.9	273.3	36.3	-0.9
Spot 205	2132488	1707605	21677.0	1.5	17.8	2.7	0.3	3.1	0.0	1.6	0.509443591	270.0	4.2	289.7	7.8	452.1	59.0	40.3
Spot 206	1566871	1254683	31187.1	3.1	13.1	1.1	1.9	1.8	0.2	1.5	0.809187709	1041.2	14.3	1064.5	12.1	1112.3	21.5	6.4
Spot 207	658603	527382	30995.5	2.7	12.1	1.3	2.2	2.3	0.2	1.8	0.813613377	1127.0	19.0	1177.5	15.8	1271.5	25.6	11.4
Spot 208	2888554	2313030	17186.7	1.3	18.7	1.8	0.3	2.5	0.0	1.7	0.677032213	269.5	4.4	276.8	6.0	339.5	41.0	20.6
Spot 209	1793908	1436485	318288.4	2.9	9.3	1.4	4.3	2.1	0.3	1.6	0.752818564	1614.1	22.3	1688.2	17.1	1781.4	24.9	9.4
Spot 210	4548075	3641904	115382.2	8.1	12.8	1.0	2.0	1.7	0.2	1.5	0.836737779	1075.5	14.4	1105.0	11.7	1163.6	18.9	7.6
Spot 211	2179698	1745409	14093.4	2.0	12.7	1.1	2.1	1.6	0.2	1.2	0.740102772	1123.3	12.5	1135.2	11.2	1158.0	21.8	3.0
Spot 212	1375796	1101679	14326.6	2.7	12.4	1.4	2.0	2.2	0.2	1.8	0.782952172	1087.0	17.6	1128.3	15.3	1208.5	27.5	10.1
Spot 214	3266663	2615804	37267.2	2.5	13.5	0.9	1.7	2.0	0.2	1.8	0.893963184	1000.2	16.3	1017.3	12.6	1054.2	17.7	5.1
Spot 215	2322537	1859788	11533.6	1.0	16.6	2.2	0.6	2.6	0.1	1.2	0.474353061	467.9	5.5	490.1	10.0	595.5	49.0	21.4
Spot 216	3243726	2597437	30184.8	4.1	18.1	4.8	0.1	5.7	0.0	2.9	0.514741485	72.1	2.1	83.5	4.5	422.3	108.3	82.9
Spot 217	3461351	2771702	23764.1	1.1	10.1	0.9	3.5	2.1	0.3	1.8	0.89062725	1479.7	24.4	1533.8	16.4	1609.1	17.6	8.0
Spot 218	1283182	1027517	14052.7	1.1	13.6	1.6	1.7	2.0	0.2	1.3	0.649085493	977.5	12.1	991.8	13.0	1023.6	31.6	4.5
Spot 220	3402217	2724350	27525.9	3.7	12.6	0.6	2.1	1.3	0.2	1.2	0.872996093	1107.2	11.8	1133.9	9.1	1185.4	12.8	6.6
Spot 221	1604634	1284922	2974.1	2.1	17.9	3.2	0.3	4.5	0.0	3.0	0.671863286	276.4	8.2	275.4	10.8	266.7	76.2	-3.6
Spot 222	3607290	2888564	213190.7	7.7	12.5	1.0	2.1	1.5	0.2	1.1	0.731546158	1098.4	10.9	1137.5	10.1	1212.8	19.7	9.4

Spot 223	6785582	5433604	181607.0	1.6	13.9	1.3	1.0	2.2	0.1	1.8	0.816631919	596.2	10.3	689.9	11.0	1008.6	25.8	40.9
Spot 224	2839653	2273873	11117.5	8.3	10.7	1.2	2.8	2.0	0.2	1.6	0.784726014	1276.0	18.1	1355.9	14.9	1484.1	23.4	14.0
Spot 225	1672529	1339290	15671.4	3.2	13.6	0.9	1.7	1.6	0.2	1.3	0.821585832	1002.6	12.0	1006.7	10.1	1015.6	18.2	1.3
Spot 226	1546107	1238056	18209.3	1.5	17.3	3.8	0.4	4.4	0.0	2.2	0.510241707	278.3	6.1	305.2	11.6	516.4	83.2	46.1
Spot 227	3057117	2448009	16493.2	15.7	19.6	1.7	0.3	2.3	0.0	1.4	0.638381411	246.1	3.5	243.6	4.9	219.5	40.4	-12.2
Spot 228	1127907	903180	11301.2	2.7	10.3	1.3	3.3	2.3	0.2	1.9	0.832946565	1425.5	24.5	1481.3	17.9	1562.2	23.9	8.7
Spot 229	1167416	934817	26975.4	0.8	16.4	5.4	0.3	6.7	0.0	4.0	0.59987954	189.5	7.5	227.1	13.7	637.1	116.0	70.3
Spot 230	1147098	918547	10221.7	2.7	12.2	3.9	2.2	5.7	0.2	4.1	0.731665679	1153.5	43.8	1180.4	39.6	1230.1	75.9	6.2
Spot 231	2417033	1935456	8707.3	1.7	18.5	2.2	0.3	2.9	0.0	1.8	0.625711111	274.3	4.8	279.5	7.0	323.2	50.7	15.1
Spot 232	3152465	2524359	35892.4	1.4	18.2	1.9	0.3	2.2	0.0	1.0	0.462887015	276.6	2.7	291.3	5.5	410.7	43.1	32.6
Spot 233	1110033	888867	5624.9	4.0	18.1	1.6	0.4	2.5	0.1	1.9	0.749153952	327.2	6.0	327.2	7.0	327.7	37.6	0.2
Spot 234	5055850	4048508	87418.8	4.7	12.8	0.8	2.1	1.5	0.2	1.3	0.86159824	1128.1	13.2	1140.6	10.2	1164.4	14.9	3.1
Spot 235	1642551	1315285	42989.4	0.9	13.9	1.5	1.6	2.2	0.2	1.6	0.72392496	986.7	14.5	989.4	13.8	995.2	30.7	0.9
Spot 237	2190194	1753814	29840.0	3.5	12.9	1.0	2.1	2.0	0.2	1.7	0.84883966	1158.5	17.7	1149.3	13.6	1132.1	20.7	-2.3
Spot 239	1486857	1190612	23165.4	2.0	13.9	1.0	1.6	2.1	0.2	1.9	0.888546884	948.6	16.5	960.4	13.1	987.6	19.7	4.0
Spot 240	1163021	931298	99915.5	1.7	17.8	2.7	0.3	3.4	0.0	2.1	0.612658426	261.8	5.4	284.2	8.4	472.8	59.6	44.6
Spot 243	3236430	2591595	9324.2	1.7	18.6	1.3	0.3	2.3	0.0	1.6	0.661258418	276.7	4.2	279.7	5.7	305.0	40.2	9.3
Spot 244	6835422	5473514	40266.0	3.6	12.3	0.9	2.0	1.5	0.2	1.2	0.77629438	1044.0	11.2	1105.4	10.1	1228.2	18.5	15.0
Spot 245	2304645	1845461	25018.7	2.4	10.9	0.7	3.0	1.6	0.2	1.4	0.882860113	1378.3	17.1	1413.2	11.9	1466.4	13.9	6.0
Spot 246	1600367	1281506	10243.7	0.7	19.1	2.8	0.3	3.5	0.0	2.1	0.600633166	261.6	5.4	260.7	8.1	253.5	64.8	-3.2
Spot 247	3236283	2591477	3918.9	8.8	18.9	2.0	0.2	3.0	0.0	2.1	0.693849466	228.4	4.7	223.0	6.0	166.8	50.5	-36.9
Spot 248	8283449	6633032	45694.7	7.0	12.9	0.8	2.1	1.5	0.2	1.2	0.834054742	1158.5	13.0	1149.0	10.1	1131.0	16.1	-2.4
Spot 249	5051681	4045170	14458.3	8.1	19.7	1.3	0.3	1.9	0.0	1.3	0.673306844	236.1	2.9	232.4	3.9	195.0	32.0	-21.0
Spot 251	970953	777498	14514.4	2.2	11.4	1.2	2.7	2.3	0.2	2.0	0.841819726	1303.5	23.2	1329.8	17.3	1372.3	24.2	5.0
Spot 252	1454693	1164856	924233.1	2.7	11.8	1.1	2.6	1.7	0.2	1.4	0.788578781	1286.3	16.1	1297.2	12.8	1315.2	20.8	2.2
Spot 253	909580	728353	11761.0	2.7	14.2	1.3	1.5	1.8	0.2	1.2	0.656604547	931.9	10.3	928.8	11.0	921.4	28.1	-1.1
Spot 254	1916830	1534916	2277.1	1.1	18.5	1.1	0.3	2.1	0.0	1.7	0.791534703	273.3	4.5	255.4	4.8	93.6	30.7	-191.9
Spot 255	1395409	1117384	20802.3	1.4	12.7	1.0	2.2	1.6	0.2	1.2	0.782082773	1168.3	13.1	1165.1	10.8	1159.0	19.3	-0.8
Spot 256	6634956	5312989	56692.0	3.4	12.6	1.0	2.3	1.5	0.2	1.2	0.787803033	1218.1	13.5	1206.1	10.9	1184.8	18.8	-2.8
Spot 259	1704155	1364614	13118.9	1.9	13.7	1.1	1.7	2.0	0.2	1.7	0.83202172	1016.8	15.9	1011.4	13.0	999.7	22.9	-1.7
Spot 260	3062788	2452550	35211.3	1.2	20.1	1.4	0.3	2.1	0.0	1.5	0.716006698	230.9	3.4	227.2	4.2	188.5	33.6	-22.5
Spot 261	2907724	2328381	36379.8	2.5	8.8	0.8	4.3	1.9	0.3	1.7	0.893849938	1564.0	23.4	1698.0	15.6	1867.6	15.3	16.3
Spot 262	1845344	1477672	28085.2	3.5	11.6	0.8	2.8	1.5	0.2	1.2	0.822823017	1340.1	14.7	1343.9	11.0	1350.1	16.2	0.7
Spot 263	1471437	1178264	9372.4	0.7	16.9	1.3	0.8	1.8	0.1	1.2	0.662666501	579.4	6.7	569.8	7.9	531.4	29.9	-9.0
Spot 264	4397447	3521288	5747.3	3.8	19.2	1.6	0.3	3.3	0.0	1.3	0.395713798	288.8	3.7	278.8	8.0	195.4	70.0	-47.8
Spot 265	582299	466280	356343.5	0.9	12.9	1.0	2.1	2.6	0.2	2.4	0.914638353	1155.3	24.9	1151.0	17.7	1143.0	20.7	-1.1
Spot 266	3137339	2512247	8401.8	5.0	18.6	2.5	0.3	3.7	0.0	2.6	0.699339711	237.6	6.1	244.0	8.1	305.4	60.6	22.2
Spot 267	353571	283124	4043.2	2.3	14.3	1.7	1.3	3.2	0.1	2.7	0.835959959	829.4	20.9	831.2	18.2	836.2	36.7	0.8
Spot 268	809583	648280	8095.8	3.4	14.3	1.5	1.4	2.3	0.2	1.7	0.757566954	907.8	14.5	904.5	13.6	896.4	30.5	-1.3
Spot 269	2135634	1710124	28578.2	4.0	12.5	0.9	2.2	1.4	0.2	1.1	0.785830859	1188.3	12.0	1190.9	9.9	1195.8	17.2	0.6
Spot 270	675716	541085	15136.6	1.2	15.4	7.5	0.3	9.2	0.0	5.2	0.570774147	187.7	9.7	237.2	19.4	760.7	159.1	75.3
Spot 271	414452	331875	5211.6	1.9	12.4	1.9	2.0	3.3	0.2	2.2	0.681697891	1085.2	22.1	1110.1	21.9	1159.2	47.2	6.4
Spot 272	2766526	2215316	115278.1	2.1	11.5	1.1	2.6	2.6	0.2	2.4	0.904918499	1273.6	27.7	1309.5	19.5	1368.7	21.7	6.9

Spot 273	2340174	1873911	78644.4	4.4	12.5	0.9	2.2	1.6	0.2	1.3	0.811551344	1167.7	14.0	1184.1	11.3	1214.2	18.6	3.8
Spot 274	6298958	5043936	28927.1	0.8	19.2	1.1	0.3	1.9	0.0	1.5	0.788770345	273.2	4.0	274.6	4.5	286.8	26.4	4.7
Spot 276	525449	420757	5156.1	2.6	13.8	2.8	1.4	4.4	0.1	3.3	0.74496406	846.7	25.9	870.5	25.6	931.5	60.0	9.1
Spot 277	2855067	2286215	7075.3	1.8	19.7	0.9	0.3	1.6	0.0	1.3	0.808666011	270.9	3.5	259.1	3.7	153.2	22.3	-76.8
Spot 278	661701	529862	30510.7	1.7	12.2	2.6	2.1	3.0	0.2	1.5	0.505817156	1114.5	15.7	1164.5	21.1	1258.7	51.3	11.5
Spot 279	5281350	4229079	69389.8	2.7	12.7	1.0	2.1	1.4	0.2	1.0	0.707561984	1127.5	10.5	1147.9	9.9	1186.6	20.0	5.0
Spot 280	581096	465317	8439.4	2.1	12.7	1.3	2.0	1.9	0.2	1.2	0.640146543	1120.2	12.6	1129.8	13.0	1148.3	29.1	2.4
Spot 281	3727073	2984481	56733.6	2.3	12.3	0.9	2.2	1.7	0.2	1.4	0.828363925	1159.7	14.8	1186.5	11.8	1235.6	18.5	6.1
Spot 283	2237625	1791794	34674.3	1.1	17.1	1.5	0.6	2.2	0.1	1.6	0.728931812	456.3	7.0	471.2	8.3	544.9	32.9	16.3
Spot 285	2161619	1730932	5536.6	4.1	16.8	1.2	0.6	2.1	0.1	1.7	0.801548945	496.2	8.0	496.6	8.2	498.9	27.6	0.5
Spot 287	2874526	2301798	687.5	2.3	17.1	4.5	0.1	5.6	0.0	3.2	0.568114443	69.3	2.2	54.3	3.0	NA	NA	
Spot 289	8507118	6812136	18417.0	2.3	19.7	2.0	0.1	2.8	0.0	2.0	0.719737507	72.9	1.5	77.3	2.1	212.7	45.4	65.7
Spot 290	900955	721446	32108.3	1.6	7.8	0.8	6.5	1.4	0.4	1.1	0.806232829	2022.2	19.3	2048.8	12.1	2075.8	14.3	2.6
Spot 291	1445142	1157208	375210.8	3.3	11.8	1.6	2.6	2.5	0.2	2.0	0.776713822	1279.4	22.8	1294.0	18.5	1318.2	30.9	2.9
Spot 292	6761775	5414540	35374.4	4.2	18.2	1.3	0.3	2.0	0.0	1.5	0.757958687	267.5	4.0	282.9	5.0	412.2	29.4	35.1
Spot 293	1798971	1440539	10561.3	1.5	16.5	2.3	0.6	3.2	0.1	2.3	0.705081103	483.5	10.6	501.9	12.8	587.0	49.9	17.6
Spot 294	1033952	827945	7685.7	5.2	16.7	2.8	0.5	4.0	0.1	2.5	0.633831482	377.0	9.2	402.2	13.1	549.9	66.8	31.5
Spot 296	623702	499434	12784.3	1.0	12.8	2.2	1.7	3.7	0.2	3.0	0.795391395	952.7	26.2	1011.9	23.8	1142.3	44.8	16.6
Spot 297	5963691	4775469	39594.7	1.3	9.6	1.4	3.9	2.2	0.3	1.6	0.751627949	1550.3	22.3	1615.6	17.4	1701.7	26.2	8.9
Spot 298	3432841	2748872	132671.1	3.4	13.1	1.2	2.0	2.0	0.2	1.7	0.819090774	1137.4	17.4	1131.2	13.9	1119.3	23.3	-1.6
Spot 300	4439323	3554820	17217.2	1.4	17.3	1.3	0.5	2.2	0.1	1.7	0.794723123	389.2	6.5	406.9	7.3	508.4	29.0	23.4
Spot 301	2992575	2396326	28124.1	3.6	10.7	2.7	2.7	3.0	0.2	1.4	0.477668934	1233.1	16.2	1334.6	22.4	1501.4	50.2	17.9
Spot 302	1498879	1200238	10773.3	3.4	13.5	0.9	1.8	1.6	0.2	1.4	0.846567743	1041.5	13.1	1035.7	10.5	1023.5	17.4	-1.8
Spot 303	3162860	2532683	56269.3	9.1	18.8	2.0	0.3	2.4	0.0	1.3	0.548295832	235.4	3.1	245.7	5.3	344.8	46.0	31.7
Spot 304	766767	613994	51694.4	1.2	13.9	1.6	1.7	2.3	0.2	1.7	0.717110036	1033.4	16.0	1020.1	15.1	991.7	33.2	-4.2
Spot 305	3196850	2559901	34204.1	2.7	12.7	2.4	0.8	3.0	0.1	1.8	0.594819851	464.8	8.0	605.0	13.7	1172.4	48.0	60.4
Spot 307	3295149	2638615	34784.6	18.1	13.7	0.9	1.7	1.5	0.2	1.2	0.811377961	981.9	11.3	993.9	9.7	1020.4	18.1	3.8
Spot 308	759801	608416	4773.6	0.7	19.3	5.1	0.2	7.4	0.0	5.4	0.727532707	204.9	10.8	201.7	13.5	164.3	118.6	-24.7
Spot 309	899290	720113	9123.0	1.9	13.9	3.2	1.4	3.8	0.1	2.1	0.544367797	890.1	17.4	909.0	23.1	955.1	66.0	6.8
Spot 310	600741	481047	10015.7	3.5	12.8	1.8	1.9	2.5	0.2	1.5	0.616170694	1070.1	14.9	1093.5	16.5	1140.3	38.5	6.2
Spot 311	1915749	1534050	4885.4	1.1	17.1	2.3	0.5	4.3	0.1	2.4	0.564234314	438.0	10.3	441.8	15.4	461.5	78.7	5.1
Spot 312	3208438	2569180	30039.3	1.4	19.5	1.0	0.3	1.4	0.0	1.0	0.68905515	269.2	2.6	268.4	3.4	261.4	23.9	-3.0
Spot 313	5791383	4637492	113917.5	2.4	12.4	1.0	2.1	1.6	0.2	1.2	0.785341115	1131.9	12.7	1164.7	10.8	1226.2	19.0	7.7
Spot 314	2126240	1702602	15514.8	2.0	19.2	1.7	0.3	2.4	0.0	1.7	0.71162806	284.4	4.8	284.0	6.0	280.5	39.2	-1.4
Spot 315	1385364	1109341	38436.4	13.4	13.2	1.0	1.6	2.8	0.2	2.6	0.925587593	905.1	21.6	964.2	17.2	1101.4	20.9	17.8

Run 2 NMBA (discordant)

Spot 1	5899183	4723814	40478.1	4.5	6.1	0.9	4.7	2.7	0.2	2.6	0.944988191	1209.2	28.3	1761.6	22.7	2498.3	14.9	51.6
Spot 103	1033162	827312	23668.8	1.4	13.1	2.9	2.1	4.3	0.2	3.2	0.736417765	1176.5	33.9	1150.5	29.5	1101.9	57.9	-6.8
Spot 106	223862	179259	16823.3	2.9	13.9	2.8	1.3	5.4	0.1	4.6	0.860251322	787.6	34.4	842.3	30.9	989.6	56.0	20.4
Spot 12	393275	314918	3570.1	1.3	20.6	2.8	0.3	6.9	0.0	6.3	0.912108819	278.2	17.0	262.0	15.9	119.6	66.3	-132.6
Spot 121	11016189	8821294	135660.8	24.5	13.8	0.8	2.0	1.4	0.2	1.2	0.810776541	1148.5	12.2	1099.9	9.6	1004.8	17.0	-14.3
Spot 123	10424032	8347120	31807.7	13.1	10.0	1.1	2.2	2.1	0.2	1.8	0.857928572	958.3	15.7	1186.0	14.4	1628.9	19.6	41.2
Spot 138	4439566	3555015	59616.5	8.9	29.5	1.6	0.3	30.0	0.1	30.0	0.998577791	348.8	101.9	234.7	63.0	NA	NA	

Spot 145	1248748	999944	2202.9	4.9	11.2	5.8	2.0	6.4	0.2	2.6	0.413376682	991.1	24.3	1131.0	43.7	1410.4	111.6	29.7
Spot 154	969812	776584	424047.7	52.0	11.1	0.9	1.9	1.4	0.2	1.1	0.793660327	930.8	9.8	1089.4	9.5	1421.8	16.6	34.5
Spot 156	8954189	7170132	4375.6	0.8	26.0	4.2	0.2	30.3	0.0	30.0	0.990156145	233.2	68.7	180.9	50.2	NA	NA	
Spot 157	780776	625212	4594.8	3.1	12.7	4.1	1.3	4.3	0.1	1.2	0.268504819	724.7	7.9	840.5	24.6	1160.0	82.3	37.5
Spot 16	4046978	3240647	1734.3	1.3	14.1	2.8	1.7	3.5	0.2	2.0	0.576623193	1029.1	19.0	1006.3	22.1	957.1	57.7	-7.5
Spot 161	1059616	848495	15410.8	2.4	14.1	3.6	2.1	11.7	0.2	11.1	0.951091625	1233.2	124.4	1135.7	79.8	953.7	73.6	-29.3
Spot 170	2545982	2038714	99737.4	4.6	13.8	1.5	1.2	2.3	0.1	1.7	0.749323796	708.9	11.5	783.7	12.5	1002.7	30.8	29.3
Spot 175	1178657	943818	11220.0	3.8	13.2	3.6	2.1	6.0	0.2	4.8	0.804864508	1193.3	52.5	1155.7	41.3	1086.0	71.2	-9.9
Spot 18	3078451	2465092	43756.7	1.7	20.7	2.7	1.9	17.2	0.3	17.0	0.987620744	1624.9	244.0	1084.2	115.0	113.9	63.6	-1327.2
Spot 180	446286	357367	3632.8	2.7	14.9	3.5	1.4	4.0	0.1	1.9	0.479807785	887.2	16.0	875.0	23.6	844.5	73.6	-5.1
Spot 185	10800404	8648502	85823.4	8.0	14.3	0.9	1.6	1.5	0.2	1.2	0.82367073	1010.2	11.6	983.9	9.5	925.9	17.6	-9.1
Spot 192	4363832	3494370	64196.5	3.5	13.3	1.3	1.3	2.0	0.1	1.5	0.761071672	750.6	10.7	838.5	11.3	1079.1	25.7	30.4
Spot 213	643504	515291	934.9	1.2	34.2	5.7	0.2	8.9	0.1	6.9	0.768120718	377.4	25.1	221.0	17.7	NA	NA	
Spot 219	565717	453002	20985.2	1.4	15.9	4.1	1.3	8.9	0.2	7.9	0.887139916	904.3	66.6	849.0	51.3	707.3	87.4	-27.9
Spot 236	411312	329361	3232.1	3.1	15.2	3.6	1.3	5.4	0.1	4.0	0.743349589	882.9	33.1	860.1	31.4	801.6	75.7	-10.1
Spot 238	12035973	9637893	480607.5	0.8	13.7	0.8	1.9	1.2	0.2	0.9	0.767708987	1128.9	9.5	1092.1	8.0	1019.4	15.5	-10.7
Spot 241	266268	213216	2874.3	1.3	13.7	2.0	1.9	2.6	0.2	1.6	0.630510875	1121.8	17.0	1085.6	17.4	1013.9	41.1	-10.6
Spot 242	3690641	2955308	338.0	2.9	5.1	32.8	0.9	33.1	0.0	4.2	0.127933715	199.7	8.3	629.0	156.4	2808.3	553.9	92.9
Spot 250	560972	449202	16480.0	0.3	13.3	2.5	1.4	4.0	0.1	3.1	0.772166465	831.8	23.8	901.5	23.6	1076.5	50.4	22.7
Spot 257	1012892	811080	5840.8	1.2	23.8	3.6	0.2	15.5	0.0	15.1	0.972659886	190.4	28.3	162.7	23.3	NA	NA	
Spot 258	793508	635407	13996.8	3.6	13.4	1.9	2.0	2.8	0.2	2.1	0.751587234	1123.1	22.0	1098.8	19.1	1051.1	37.7	-6.8
Spot 275	387021	309910	6278.2	2.0	13.2	1.6	2.1	2.5	0.2	2.0	0.785904688	1195.8	21.6	1158.4	17.4	1089.0	31.1	-9.8
Spot 282	3588339	2873388	7784.9	0.8	20.6	2.7	0.3	8.9	0.0	8.4	0.95273762	280.9	23.2	264.9	20.6	125.5	63.3	-123.9
Spot 284	381968	305864	5496.8	0.9	14.5	4.2	1.5	8.4	0.2	7.3	0.86968868	938.7	64.1	927.1	51.3	899.7	85.9	-4.3
Spot 286	8310852	6654975	20193.1	17.1	25.6	1.8	0.3	29.9	0.0	29.9	0.998130199	303.3	88.5	234.2	62.7	NA	NA	
Spot 288	1255080	1005014	22216.7	1.9	20.7	2.7	0.3	18.3	0.0	18.0	0.988969379	296.6	52.3	276.8	44.2	112.8	63.8	-162.9
Spot 295	2787870	2232407	41209.9	2.2	6.5	1.0	6.5	1.9	0.3	1.6	0.848676968	1725.0	24.7	2049.7	16.9	2394.2	17.3	28.0
Spot 299	1548574	1240031	332.7	2.2	4.9	16.6	8.5	18.0	0.3	7.0	0.388377772	1707.9	105.2	2287.9	165.4	2855.8	272.8	40.2
Spot 30	5436753	4353520	1936.6	1.2	23.0	10.6	0.2	30.5	0.0	28.6	0.937523225	251.8	70.7	217.1	59.8	NA	NA	
Spot 306	1299548	1040622	41200.8	5.1	5.4	1.6	5.5	4.3	0.2	4.0	0.930377403	1271.5	46.4	1908.1	37.2	2694.2	26.2	52.8
Spot 53	11214564	8980144	216863.6	36.9	14.4	1.6	1.7	2.4	0.2	1.8	0.754847348	1050.9	17.6	1005.9	15.4	909.2	32.5	-15.6
Spot 65	2149496	1721225	6273.4	2.0	32.2	3.4	0.1	30.2	0.0	30.0	0.993679468	172.3	51.0	111.4	31.9	NA	NA	
Spot 75	4963931	3974903	23394.2	2.7	12.6	1.0	1.7	2.1	0.2	1.9	0.8715961	933.6	16.1	1008.9	13.6	1176.5	20.7	20.6
Spot 83	527334	422267	527571.1	1.3	12.5	4.1	1.7	5.1	0.2	3.0	0.596382473	920.1	25.9	1003.8	32.3	1191.3	80.2	22.8
Spot 91	8167170	6539921	1571922.4	15.1	8.5	0.9	3.4	1.8	0.2	1.6	0.872629151	1237.9	17.8	1512.7	14.3	1921.7	15.9	35.6
Spot 96	1982170	1587237	38280.2	5.9	11.8	1.0	2.8	1.8	0.2	1.5	0.842388581	1389.9	19.0	1357.6	13.5	1307.1	18.9	-6.3
Run 3																		
Spot 1	8180843	6850867	12977.1	11.9	20.2	0.9	0.3	1.9	0.0	1.5	0.758160384	248.2	3.5	237.0	4.0	127.6	29.4	-94.5
Spot 2	1728089	1447150	2474.8	1.7	18.3	3.4	0.2	5.7	0.0	2.5	0.431696561	168.8	4.1	166.9	8.8	140.4	121.6	-20.2
Spot 3	2553928	2138731	6916.5	1.0	19.1	2.6	0.3	2.9	0.0	1.3	0.46226276	257.0	3.4	253.0	6.5	215.8	59.6	-19.1
Spot 4	3386202	2835701	9536.5	1.7	19.1	1.5	0.3	2.1	0.0	1.3	0.634866893	252.6	3.3	251.6	4.7	242.5	37.6	-4.1
Spot 5	8490427	7110121	28064.2	0.7	20.7	1.2	0.2	1.7	0.0	1.2	0.698019814	157.5	1.8	153.8	2.4	97.6	28.6	-61.3
Spot 6	5747073	4812760	37332.0	11.9	12.5	0.8	2.2	1.5	0.2	1.3	0.842048307	1158.4	13.8	1168.8	10.8	1188.3	16.5	2.5

Spot 7	4609062	3859758	56325.3	1.1	19.2	1.2	0.3	1.8	0.0	1.4	0.760239921	261.0	3.5	263.8	4.1	289.2	26.5	9.8
Spot 8	2146387	1797444	2066.6	0.9	19.5	1.7	0.2	6.7	0.0	1.4	0.210483797	199.1	2.8	177.8	10.9	NA	NA	
Spot 9	835802	699924	39327.0	1.5	13.4	1.3	1.7	2.0	0.2	1.5	0.761142706	973.7	13.9	994.9	12.8	1042.0	26.4	6.5
Spot 10	1491156	1248736	8198.4	2.1	19.2	1.5	0.4	2.7	0.1	2.0	0.752649085	340.3	6.6	322.0	7.3	192.1	40.6	-77.1
Spot 11	1531116	1282200	16406.9	2.0	9.6	0.8	4.2	1.7	0.3	1.5	0.888924139	1678.7	22.4	1674.0	14.0	1668.1	14.5	-0.6
Spot 12	5985781	5012661	305095.9	2.1	14.1	0.6	1.6	1.5	0.2	1.4	0.916766113	964.4	12.2	959.9	9.3	949.5	12.2	-1.6
Spot 14	4790936	4012064	23230.3	7.4	16.7	0.8	0.8	1.7	0.1	1.5	0.866380813	599.9	8.3	593.6	7.5	569.3	18.2	-5.4
Spot 15	833157	697709	15829.6	1.9	18.6	3.6	0.3	4.2	0.0	2.1	0.509676048	275.9	5.7	279.7	10.2	311.5	81.6	11.5
Spot 16	6393981	5354499	14709.6	2.0	19.1	1.3	0.3	1.8	0.0	1.1	0.629292683	274.6	3.1	271.6	4.3	245.6	32.4	-11.8
Spot 17	5402452	4524165	9307.1	1.9	19.3	1.5	0.3	2.3	0.0	1.3	0.548157533	280.6	3.5	272.0	5.5	198.5	44.7	-41.4
Spot 20	3589540	3005981	42970.1	6.5	12.8	0.9	1.8	1.8	0.2	1.5	0.862556631	1015.5	14.4	1054.4	11.7	1135.8	17.9	10.6
Spot 21	4855280	4065947	12551.5	1.2	19.0	1.0	0.3	1.8	0.0	1.3	0.707608194	274.8	3.5	271.9	4.3	247.2	29.6	-11.2
Spot 22	1474023	1234388	13569.9	1.0	20.3	2.6	0.2	4.1	0.0	3.2	0.782293344	189.9	6.0	183.5	6.9	101.1	60.4	-87.9
Spot 23	2048274	1715282	39337.7	5.6	11.1	0.8	3.0	1.5	0.2	1.2	0.82521729	1396.0	15.6	1401.1	11.5	1408.8	16.3	0.9
Spot 24	273132	228728	984.4	1.1	10.0	11.5	0.3	13.2	0.0	4.8	0.364539919	155.0	7.4	255.5	29.9	1321.3	239.6	88.3
Spot 25	5233945	4383052	25044.7	9.3	18.0	1.5	0.5	3.2	0.1	2.8	0.886325922	443.8	12.2	437.5	11.4	404.4	33.2	-9.8
Spot 27	5108225	4277771	2229.3	4.6	21.0	2.9	0.1	3.7	0.0	2.0	0.551274127	67.8	1.4	58.8	2.1	NA	NA	
Spot 28	4451651	3727937	19153.5	2.1	19.8	1.3	0.3	2.0	0.0	1.4	0.728126719	255.1	3.6	247.3	4.3	174.0	31.2	-46.6
Spot 29	4543480	3804838	158626.9	3.2	10.7	1.1	3.4	1.9	0.3	1.5	0.809798398	1534.1	20.5	1512.0	14.6	1481.0	20.7	-3.6
Spot 30	4190297	3509072	6345.6	1.1	19.2	1.1	0.3	2.2	0.0	1.4	0.662664154	283.9	4.0	272.9	5.2	179.2	38.2	-58.4
Spot 31	4104993	3437636	42231.9	1.5	11.9	0.7	2.4	1.5	0.2	1.4	0.896012242	1228.0	15.3	1247.1	11.0	1280.2	13.2	4.1
Spot 32	1261091	1056073	43872.7	1.0	6.9	1.0	7.9	2.0	0.4	1.8	0.878714214	2154.2	32.2	2214.3	18.0	2270.5	16.5	5.1
Spot 33	1981797	1659612	62400.0	2.4	11.2	0.9	3.1	1.6	0.3	1.3	0.831799109	1445.7	17.4	1425.1	12.4	1394.4	17.2	-3.7
Spot 35	4827185	4042420	209327.8	2.1	12.3	0.8	2.3	1.6	0.2	1.4	0.855530714	1207.4	15.4	1213.2	11.6	1223.4	16.7	1.3
Spot 36	725832	607832	22121.5	2.8	13.2	3.8	1.9	6.5	0.2	5.3	0.812157077	1106.5	53.4	1093.0	43.3	1066.1	75.9	-3.8
Spot 37	742359	621673	1682.2	2.3	19.4	4.4	0.2	6.7	0.0	3.3	0.499600118	171.0	5.6	149.0	9.3	NA	NA	
Spot 38	2309134	1933734	18586.2	3.9	12.5	1.0	2.2	2.0	0.2	1.7	0.861286795	1187.7	18.4	1179.8	13.7	1165.4	19.8	-1.9
Spot 39	496976	416181	1989.7	1.6	13.7	6.3	0.5	8.4	0.1	2.9	0.341349651	319.2	8.9	382.8	26.6	788.1	165.0	59.5
Spot 40	1434715	1201470	7027.1	2.7	21.6	3.7	0.1	6.1	0.0	4.8	0.784704587	93.7	4.4	86.4	5.0	NA	NA	
Spot 41	3254986	2725816	182844.6	1.2	9.2	0.8	4.7	1.5	0.3	1.4	0.873808771	1774.2	20.9	1775.2	13.0	1776.4	13.7	0.1
Spot 42	5298976	4437511	39974.6	7.6	11.8	0.9	2.0	1.5	0.2	1.2	0.81029068	1039.7	11.7	1122.1	10.2	1285.2	17.1	19.1
Spot 44	7571968	6340978	62574.3	1.2	13.6	0.7	1.7	1.6	0.2	1.5	0.900122824	984.5	13.4	991.0	10.3	1005.4	14.4	2.1
Spot 45	6165862	5163466	1547453.3	9.7	16.6	2.6	0.5	6.3	0.1	5.8	0.912696279	354.0	19.9	389.0	20.4	602.2	55.9	41.2
Spot 48	992228	830920	90610.2	3.3	11.8	0.9	2.5	1.8	0.2	1.6	0.878214162	1277.1	18.7	1284.8	13.4	1297.6	17.1	1.6
Spot 50	1158100	969825	34862.2	1.8	9.1	1.2	4.6	1.9	0.3	1.6	0.796648315	1732.2	23.5	1752.8	16.2	1777.5	21.5	2.5
Spot 51	871618	729917	136719.4	3.9	14.1	1.4	1.5	2.8	0.1	2.5	0.87573057	900.3	20.9	912.6	17.1	942.5	28.1	4.5
Spot 52	1278786	1070892	33727.8	1.7	14.1	1.1	1.5	1.7	0.2	1.3	0.761387702	914.3	11.3	917.8	10.5	926.3	23.2	1.3
Spot 53	1110366	929852	2361.0	2.1	17.8	1.8	0.3	4.6	0.0	2.0	0.439659716	279.9	5.5	270.1	10.9	185.6	96.2	-50.8
Spot 54	284571	238308	77877.6	1.2	12.5	2.2	2.0	3.5	0.2	2.7	0.766215579	1079.3	26.5	1115.2	23.6	1185.8	44.3	9.0
Spot 55	2399002	2008992	96478.8	5.1	12.9	0.8	2.0	1.5	0.2	1.3	0.851491663	1105.5	13.3	1109.2	10.4	1116.5	16.1	1.0
Spot 56	1247364	1044577	30564.6	2.5	12.7	1.3	2.2	2.1	0.2	1.6	0.770227678	1182.2	17.2	1166.4	14.3	1137.3	26.2	-3.9
Spot 57	2940580	2462524	167405.7	3.1	11.6	0.9	2.8	1.8	0.2	1.6	0.877083721	1370.6	19.6	1354.8	13.5	1329.9	16.8	-3.1
Spot 58	4959269	4153031	9243.1	1.4	18.5	1.9	0.3	2.3	0.0	1.2	0.521585558	275.4	3.2	277.8	5.6	297.7	45.0	7.5

Spot 60	3731307	3124701	13806.9	10.9	19.6	2.5	0.3	3.5	0.0	2.4	0.683277775	245.2	5.8	239.3	7.5	181.7	60.0	-34.9
Spot 61	1754971	1469662	12589.6	2.4	19.6	1.5	0.3	2.3	0.0	1.5	0.672104258	243.2	3.7	237.0	4.8	176.0	39.5	-38.2
Spot 62	2853585	2389672	7277.9	2.3	19.8	1.3	0.3	1.9	0.0	1.3	0.701470537	279.2	3.6	261.9	4.3	110.0	31.5	-153.9
Spot 63	3738066	3130361	346833.6	27.3	19.2	1.5	0.3	2.3	0.0	1.7	0.748565748	259.2	4.4	260.6	5.3	273.6	35.0	5.3
Spot 65	1035652	867284	7508.8	1.2	15.0	4.7	0.3	6.1	0.0	3.8	0.634279593	193.4	7.3	243.4	13.1	757.7	99.0	74.5
Spot 66	3577342	2995767	29387.5	9.1	19.7	1.6	0.3	2.2	0.0	1.5	0.680278162	250.6	3.7	245.8	4.8	200.5	37.7	-25.0
Spot 67	2077517	1739771	536255.0	3.7	11.4	0.9	2.9	1.4	0.2	1.1	0.764095384	1381.0	13.7	1376.4	10.9	1369.3	17.9	-0.9
Spot 68	4449123	3725820	12942.3	2.9	19.8	1.2	0.2	1.9	0.0	1.5	0.782637722	201.2	3.0	197.5	3.5	154.6	28.2	-30.1
Spot 69	2236887	1873232	127321.1	1.0	17.4	1.2	0.7	2.2	0.1	1.8	0.826734354	550.5	9.5	539.4	9.1	492.7	27.1	-11.7
Spot 71	6301327	5276908	18930.7	1.3	11.1	0.8	1.2	1.5	0.1	1.3	0.837206969	599.3	7.2	799.9	8.3	1408.8	15.7	57.5
Spot 72	3108852	2603440	36197.9	19.2	11.8	0.8	2.7	1.4	0.2	1.2	0.822107028	1337.3	14.3	1320.6	10.7	1293.6	16.0	-3.4
Spot 73	3829487	3206920	10755.1	17.8	15.7	1.5	0.8	2.6	0.1	2.1	0.820175437	585.5	12.0	606.1	11.9	684.1	31.8	14.4
Spot 75	8174487	6845545	42396.5	303.7	19.2	0.7	0.3	1.3	0.0	1.1	0.82091581	252.4	2.6	253.6	2.9	264.7	17.0	4.7
Spot 77	2508902	2101025	33980.7	1.8	19.0	1.3	0.3	2.0	0.0	1.5	0.740697065	289.2	4.2	288.9	5.0	286.1	30.6	-1.1
Spot 78	4897740	4101505	76449.7	2.1	18.9	1.2	0.3	1.7	0.0	1.3	0.744351983	238.7	3.0	245.6	3.8	312.1	26.2	23.5
Spot 79	2882370	2413778	20027.9	3.5	16.8	1.6	0.7	1.9	0.1	1.1	0.569766664	520.6	5.5	527.3	7.9	556.4	34.5	6.4
Spot 80	3170587	2655139	21557.4	1.7	19.4	1.3	0.3	2.2	0.0	1.8	0.80319128	280.2	4.8	274.7	5.3	227.9	30.2	-22.9
Spot 82	456981	382689	2954.0	4.3	15.5	2.4	0.8	2.9	0.1	1.5	0.537171077	614.7	9.0	607.3	13.1	579.8	52.5	-6.0
Spot 83	1807754	1513864	32208.3	1.5	11.9	1.5	2.1	4.5	0.2	4.3	0.945501326	1098.0	43.3	1161.5	31.4	1282.1	28.7	14.4
Spot 85	3759090	3147967	22946.9	1.6	19.6	1.0	0.3	1.6	0.0	1.2	0.769213179	313.5	3.8	301.8	4.2	212.5	23.9	-47.5
Spot 86	7882531	6601052	26673.3	0.9	19.3	1.0	0.3	1.4	0.0	1.0	0.713557575	271.4	2.7	268.5	3.4	243.3	23.0	-11.5
Spot 87	2868407	2402084	3864.3	3.7	19.2	1.4	0.3	2.0	0.0	1.4	0.685177434	239.9	3.2	228.0	4.1	106.7	34.3	-124.8
Spot 88	1741711	1458558	24274.1	6.3	11.7	1.1	2.5	2.0	0.2	1.7	0.835388409	1270.6	19.5	1285.9	14.8	1311.5	21.6	3.1
Spot 90	1586781	1328815	12537.8	2.3	19.6	2.5	0.3	3.3	0.0	1.9	0.58980242	294.4	5.6	282.0	8.1	180.1	62.2	-63.5
Spot 91	1343634	1125197	44398.1	2.4	13.9	1.4	1.6	1.9	0.2	1.3	0.678647277	954.7	11.6	960.1	12.0	972.5	28.8	1.8
Spot 92	1028114	860972	5381.2	1.9	19.2	2.2	0.3	3.3	0.0	2.4	0.735963654	288.7	6.9	274.9	8.0	159.2	52.4	-81.3
Spot 93	1737696	1455195	3622.2	1.6	18.9	2.4	0.3	5.1	0.0	1.5	0.305520558	291.3	4.4	274.5	12.1	132.9	113.1	-119.2
Spot 94	2141194	1793096	13556.4	3.2	13.0	4.1	0.8	6.4	0.1	5.0	0.771780453	449.8	21.5	570.7	28.0	1087.1	81.9	58.6
Spot 96	4531341	3794672	30568.8	6.7	11.4	0.8	2.7	1.4	0.2	1.1	0.803446103	1301.1	13.3	1324.0	10.4	1361.1	16.2	4.4
Spot 97	3710719	3107460	187333.9	5.1	12.5	0.7	2.2	1.7	0.2	1.6	0.910027575	1159.0	16.6	1169.6	12.0	1189.5	14.1	2.6
Spot 98	7125976	5967492	2728298.7	1.0	17.7	2.2	0.3	2.6	0.0	1.3	0.514223107	281.6	3.7	302.5	6.9	467.0	49.8	39.7
Spot 99	1757092	1471438	5978.1	1.3	19.4	1.8	0.3	3.4	0.0	1.4	0.420006706	280.1	3.9	267.3	8.0	156.4	72.3	-79.1
Spot 100	784567	657019	14805.8	2.6	17.0	1.3	0.7	1.7	0.1	0.9	0.551847325	560.5	4.9	552.2	7.1	518.1	30.5	-8.2
Spot 101	4171676	3493478	588815.4	7.0	13.0	1.3	2.0	2.0	0.2	1.6	0.777764671	1100.1	15.8	1104.7	13.5	1113.7	25.2	1.2
Spot 102	1496345	1253081	14309.2	3.5	12.5	1.5	2.1	2.1	0.2	1.5	0.692440096	1121.2	15.3	1136.6	14.7	1166.0	30.6	3.8
Spot 103	759229	635799	7946.0	2.7	14.4	1.7	1.4	3.0	0.1	2.3	0.75707754	887.3	19.1	878.3	17.9	855.6	41.3	-3.7
Spot 104	4128676	3457469	146836.3	2.2	8.3	0.8	5.6	1.6	0.3	1.4	0.876421921	1880.1	22.6	1913.9	13.6	1950.6	13.6	3.6
Spot 106	432385	362091	3994.8	1.3	16.0	2.6	0.7	3.2	0.1	1.9	0.594423813	534.6	9.9	540.2	13.5	564.0	56.6	5.2
Spot 107	5902575	4942981	25843.3	1.7	19.3	1.0	0.3	1.3	0.0	0.9	0.697297869	238.1	2.2	239.0	2.9	248.0	22.2	4.0
Spot 108	2041052	1709234	2282.6	1.2	20.8	2.5	0.1	4.1	0.0	3.1	0.768964578	166.4	5.2	141.8	5.4	NA	NA	
Spot 109	7320432	6130335	97761.8	0.9	13.5	0.9	1.8	1.6	0.2	1.3	0.821683544	1032.0	12.3	1033.4	10.1	1036.3	18.0	0.4
Spot 110	6673925	5588932	59597.1	17.5	19.6	1.1	0.3	1.9	0.0	1.5	0.812084278	243.0	3.7	241.4	4.1	225.9	25.5	-7.6
Spot 111	707799	592731	850.1	1.1	18.1	3.6	0.1	5.8	0.0	2.8	0.475736019	177.6	4.8	137.5	7.4	NA	NA	

Spot 112	2030967	1700789	10213.5	3.5	19.4	1.8	0.3	2.2	0.0	1.2	0.56527113	258.0	3.1	252.5	4.8	202.1	41.2	-27.6
Spot 114	5786500	4845777	160837.2	31.4	13.4	0.9	1.7	1.5	0.2	1.2	0.813710041	986.4	11.2	1010.5	9.6	1063.0	17.6	7.2
Spot 115	833776	698227	3952.6	2.4	19.7	3.1	0.2	4.6	0.0	3.2	0.691940018	207.1	6.5	195.0	8.2	51.0	NA	-306.2
Spot 117	490496	410755	7276.5	2.1	12.8	1.8	2.1	2.7	0.2	1.8	0.665742739	1152.8	19.2	1135.3	18.7	1102.0	40.9	-4.6
Spot 118	1168251	978326	14436.6	2.4	14.0	1.1	1.6	1.9	0.2	1.5	0.803866917	960.2	13.6	953.0	11.7	936.4	23.2	-2.5
Spot 119	561457	470180	2846.3	1.1	12.7	7.7	0.3	7.9	0.0	1.9	0.236481982	186.4	3.4	264.7	18.5	1031.4	156.0	81.9
Spot 120	2275740	1905769	36122.0	1.1	18.8	1.7	0.3	2.2	0.0	1.4	0.612986705	299.5	4.0	301.5	5.8	316.9	39.6	5.5
Spot 121	1065719	892463	11239.9	2.7	12.7	1.2	2.1	1.6	0.2	1.1	0.686671441	1181.4	12.0	1164.6	11.2	1133.6	23.4	-4.2
Spot 122	2090654	1750772	27141.1	2.4	8.8	0.9	4.9	1.7	0.3	1.5	0.846255282	1762.0	22.8	1808.8	14.7	1863.1	16.8	5.4
Spot 123	377548	316170	14717.4	6.9	13.8	2.9	1.4	4.2	0.1	3.1	0.73031482	873.2	25.1	904.0	25.2	980.1	58.6	10.9
Spot 124	2671784	2237427	32405.2	1.7	19.1	1.5	0.3	2.0	0.0	1.4	0.691045976	301.3	4.1	298.8	5.2	278.6	33.4	-8.1
Spot 125	1267172	1061166	4123.2	1.2	18.5	1.5	0.6	2.0	0.1	1.4	0.669581301	514.0	6.7	464.2	7.5	224.6	34.6	-128.8
Spot 126	633971	530905	5569.0	3.6	13.5	1.8	1.6	2.6	0.2	1.5	0.584931112	970.3	13.5	970.5	16.1	970.9	42.5	0.1
Spot 127	5574924	4668598	45600.5	1.6	13.7	0.9	1.7	1.5	0.2	1.1	0.765260059	1007.3	10.4	1008.2	9.3	1009.9	19.1	0.3
Spot 128	408445	342043	4383.8	1.1	17.2	4.1	0.3	4.9	0.0	2.5	0.499789294	264.7	6.4	279.4	12.0	404.6	95.5	34.6
Spot 129	7251410	6072534	7889.6	2.2	19.5	0.8	0.3	1.4	0.0	1.1	0.808775346	277.8	3.0	267.1	3.2	173.8	18.8	-59.9
Spot 131	867047	726090	1249.0	5.3	20.3	5.0	0.1	8.6	0.0	6.0	0.694645573	108.4	6.4	85.2	7.1	NA	NA	
Spot 132	2607984	2183999	2510.5	0.9	20.2	1.4	0.2	2.2	0.0	1.7	0.756239047	198.4	3.2	175.2	3.5	NA	NA	
Spot 133	1512007	1266197	29263.4	3.3	12.6	0.7	2.2	1.7	0.2	1.5	0.903156857	1210.6	16.7	1194.2	11.8	1164.6	14.3	-4.0
Spot 134	1481515	1240662	11417.1	1.8	17.8	1.8	0.6	2.2	0.1	1.3	0.567927055	484.3	5.8	470.7	8.3	405.2	40.6	-19.5
Spot 135	4597132	3849767	8443.1	7.9	19.0	2.1	0.3	3.4	0.0	2.3	0.666729631	248.3	5.5	246.9	7.4	233.8	58.1	-6.2
Spot 136	1739843	1456993	6495.4	1.3	18.7	2.0	0.3	2.4	0.0	1.2	0.503073042	290.0	3.4	286.4	6.0	256.8	47.8	-12.9
Spot 137	2359425	1975849	3104.5	11.9	19.5	2.0	0.3	3.1	0.0	2.2	0.715366523	255.7	5.6	234.3	6.6	24.7	NA	-933.4
Spot 138	855296	716249	3960.1	1.3	16.6	1.5	0.8	2.4	0.1	1.7	0.6947281	666.2	10.4	624.2	11.1	474.8	37.8	-40.3
Spot 139	3222056	2698240	65566.5	2.2	11.4	0.6	2.9	1.9	0.2	1.8	0.940084677	1380.6	22.0	1378.1	14.2	1374.3	12.3	-0.5
Spot 140	445846	373364	1405.7	3.3	19.0	4.0	0.3	6.2	0.0	3.5	0.563570616	282.1	9.6	234.8	12.9	NA	NA	
Spot 141	1447163	1211895	7298.0	1.8	18.7	2.3	0.3	3.2	0.0	1.4	0.436522838	298.6	4.0	295.2	8.1	267.8	65.3	-11.5
Spot 142	1721544	1441669	15236.8	1.4	16.5	1.1	0.8	1.7	0.1	1.2	0.737029274	596.1	7.0	595.3	7.5	592.5	24.3	-0.6
Spot 143	1193981	999873	19073.2	3.3	7.8	0.6	6.6	1.4	0.4	1.2	0.891008041	2031.2	21.4	2052.9	12.1	2074.7	11.0	2.1
Spot 144	1666408	1395496	2638.2	2.5	15.8	3.9	0.3	4.3	0.0	1.7	0.388378383	274.6	4.5	303.3	11.3	530.4	86.9	48.2
Spot 146	5679392	4756082	345773.8	3.8	14.4	0.9	1.2	1.6	0.1	1.4	0.847479837	791.7	10.4	822.5	9.3	906.8	18.0	12.7
Spot 147	1721168	1441355	15465.5	11.3	17.6	2.4	0.3	2.9	0.0	1.6	0.542666182	254.1	3.9	274.5	6.9	452.7	53.4	43.9
Spot 148	760994	637278	1979.0	1.4	24.3	2.4	0.1	3.2	0.0	1.4	0.441329381	184.3	2.5	127.9	3.8	NA	NA	
Spot 150	1868599	1564817	10667.8	1.8	18.0	2.7	0.4	3.1	0.0	1.4	0.454884276	298.2	4.1	307.9	8.1	381.9	61.4	21.9
Spot 151	249513	208949	863.6	1.8	13.6	9.1	0.2	13.1	0.0	4.4	0.340416386	190.6	8.4	214.9	25.3	491.4	271.8	61.2
Spot 152	9209402	7712212	14890.3	1.4	19.4	1.0	0.3	1.5	0.0	1.1	0.752923834	243.3	2.7	241.1	3.2	219.8	22.8	-10.7
Spot 153	1175477	984378	112703.4	1.8	6.3	0.7	9.3	1.3	0.4	1.1	0.84118163	2283.3	20.9	2370.7	11.8	2446.7	11.8	6.7
Spot 155	8082972	6768907	31123.4	12.0	17.9	1.1	0.5	2.0	0.1	1.6	0.824412359	373.3	6.0	382.4	6.4	438.1	25.2	14.8
Spot 156	1612037	1349965	37037.0	1.5	10.0	1.2	3.1	2.6	0.2	2.3	0.883922535	1324.4	27.3	1442.1	19.9	1620.3	22.5	18.3
Spot 157	664793	556716	1408.3	0.7	20.3	3.3	0.2	5.5	0.0	2.8	0.510899062	189.0	5.2	149.4	7.6	NA	NA	
Spot 158	5899979	4940808	126694.0	9.3	15.2	0.9	1.0	2.1	0.1	1.8	0.890415797	696.9	12.2	721.1	10.7	797.2	19.7	12.6
Spot 159	857466	718066	10764.9	2.7	15.5	1.3	1.0	2.0	0.1	1.3	0.66596712	709.2	9.0	710.1	10.3	712.8	31.9	0.5
Spot 160	1758180	1472349	27230.5	4.1	12.3	1.0	2.3	1.5	0.2	1.1	0.724458405	1208.8	11.9	1213.7	10.5	1222.5	20.2	1.1

Spot 161	5400748	4522738	68154.3	2.4	13.5	1.0	1.7	1.6	0.2	1.2	0.757934486	980.7	10.8	1001.0	10.0	1045.9	20.6	6.2
Spot 162	2053782	1719895	13195.4	1.7	19.5	1.4	0.3	2.2	0.0	1.5	0.689936549	301.8	4.4	291.4	5.5	208.4	36.3	-44.8
Spot 163	1685669	1411627	70564.0	1.3	19.2	2.4	0.3	3.0	0.0	1.9	0.627110967	298.0	5.5	295.7	7.8	278.1	54.0	-7.2
Spot 165	3452141	2890920	3388.2	3.2	9.7	3.2	3.7	4.2	0.3	1.7	0.417913745	1553.3	24.1	1578.5	33.5	1612.2	70.8	3.7
Spot 166	897017	751187	6593.1	1.4	15.8	1.6	0.9	2.3	0.1	1.6	0.694967558	688.1	10.5	677.2	11.4	641.0	35.7	-7.4
Spot 168	872361	730539	9175.9	1.9	14.1	1.8	1.4	2.4	0.1	1.5	0.620943448	876.9	12.2	884.8	14.2	904.5	38.8	3.0
Spot 170	5545731	4644150	114488.3	1.9	19.5	1.1	0.3	1.9	0.0	1.5	0.797069413	268.1	4.0	266.2	4.5	250.3	26.5	-7.1
Spot 172	1350845	1131235	4936.9	1.5	18.8	2.6	0.3	4.4	0.0	3.5	0.790320574	290.3	9.9	280.5	10.8	199.7	62.8	-45.4
Spot 173	3807772	3188735	471678.9	7.2	8.4	1.5	5.6	2.5	0.3	2.0	0.814488783	1901.3	33.8	1921.7	21.7	1943.7	26.1	2.2
Spot 174	20746589	17373775	11566.7	17.9	13.9	0.8	0.8	1.8	0.1	1.6	0.89136315	481.8	7.6	572.2	8.0	949.6	17.0	49.3
Spot 176	5233043	4382297	831375.8	1.8	12.1	0.9	2.5	1.4	0.2	1.0	0.77053532	1295.5	12.2	1282.0	9.9	1259.4	16.9	-2.9
Spot 177	1427178	1195159	8396.1	4.4	13.8	1.4	1.6	2.1	0.2	1.5	0.724895701	984.9	13.9	973.3	13.1	947.4	29.6	-4.0
Spot 178	2084415	1745547	18559.4	18.6	16.2	2.0	0.5	2.6	0.1	1.7	0.644990648	358.8	6.0	398.8	8.7	637.3	43.5	43.7
Spot 179	5531983	4632637	14179.2	3.1	19.9	1.3	0.2	2.6	0.0	2.1	0.835266748	197.9	4.2	194.6	4.5	155.3	32.9	-27.5
Spot 180	1670827	1399198	58862.5	282.0	15.2	1.8	1.0	2.2	0.1	1.3	0.588812261	699.4	8.5	719.7	11.3	783.8	37.1	10.8
Spot 181	1229764	1029839	11560.1	1.8	12.6	1.4	1.8	2.4	0.2	1.9	0.787540506	988.9	17.3	1038.1	15.6	1143.1	29.4	13.5
Spot 184	721601	604289	3993.4	1.1	16.3	3.3	0.7	4.2	0.1	2.5	0.598176502	510.4	12.2	510.7	16.7	511.8	73.1	0.3
Spot 185	3230140	2705010	3993.9	1.8	18.8	1.0	0.3	1.8	0.0	1.5	0.83393081	281.9	4.2	270.4	4.4	171.5	23.7	-64.4
Spot 186	2617024	2191569	55297.6	3.1	12.3	1.0	2.3	1.7	0.2	1.4	0.808053583	1213.3	14.9	1214.2	11.8	1215.8	19.4	0.2
Spot 187	2325848	1947730	126233.9	1.8	8.7	0.8	5.2	1.7	0.3	1.5	0.878171567	1839.7	23.4	1857.8	14.2	1878.0	14.4	2.0
Spot 188	1078315	903011	10933.6	3.3	9.8	1.1	3.5	3.4	0.3	3.2	0.947646801	1453.5	41.7	1524.6	26.7	1624.8	20.1	10.5
Spot 189	577491	483607	3474.9	2.2	12.8	1.5	1.7	3.2	0.2	1.6	0.49674996	977.4	14.6	993.0	20.6	1027.6	57.0	4.9
Spot 191	5672136	4750006	11422.9	5.2	19.4	1.4	0.3	1.8	0.0	1.2	0.633626523	235.1	2.7	231.8	3.8	198.0	32.7	-18.7
Spot 193	182596	152911	2125.1	1.4	11.4	4.0	2.1	5.7	0.2	2.0	0.348608897	1113.6	20.2	1147.1	39.0	1210.9	104.8	8.0
Spot 194	3502809	2933350	13822.8	1.7	19.2	0.9	0.3	1.7	0.0	1.4	0.834132287	287.6	3.9	282.2	4.1	238.2	21.3	-20.7
Spot 195	6888964	5769012	31269.5	3.1	18.5	1.2	0.3	1.7	0.0	1.2	0.718715968	249.0	3.0	258.2	3.9	342.7	27.3	27.4
Spot 196	4875109	4082553	13518.2	1.3	19.5	0.9	0.3	2.0	0.0	1.8	0.879724546	268.8	4.7	261.7	4.7	199.0	22.3	-35.1
Spot 197	2157362	1806635	14452.1	1.5	17.1	0.9	0.7	1.7	0.1	1.4	0.812243815	543.0	7.2	536.4	7.1	508.4	21.9	-6.8
Spot 198	8543713	7154745	33175.2	1.0	18.7	1.8	0.3	2.4	0.0	1.5	0.644282353	262.1	3.9	268.5	5.6	324.6	41.2	19.3
Spot 199	3491535	2923909	3393.2	1.7	18.9	1.4	0.3	2.2	0.0	1.7	0.757229889	287.1	4.7	269.8	5.2	122.6	34.1	-134.2
Spot 200	3432548	2874512	5476.0	3.6	17.9	3.0	0.1	3.9	0.0	2.2	0.562062345	72.8	1.6	81.0	3.0	329.9	73.4	77.9
Spot 202	10098234	8456545	4710.7	3.5	19.9	1.9	0.1	3.1	0.0	1.3	0.438893774	67.9	0.9	67.1	2.0	40.5	NA	-67.6
Spot 203	904198	757201	1386.2	1.3	16.1	4.6	0.3	5.3	0.0	2.0	0.38091094	281.0	5.6	278.9	13.0	261.3	113.2	-7.5
Spot 204	2675856	2240837	32858.0	1.5	5.5	0.6	11.0	1.6	0.4	1.5	0.920469301	2373.1	29.0	2527.2	14.8	2653.4	10.3	10.6
Spot 205	8412558	7044912	32485.8	1.0	19.2	0.9	0.3	1.8	0.0	1.5	0.85143489	288.1	4.3	285.8	4.4	267.6	21.5	-7.6
Spot 206	1603824	1343087	584699.7	2.1	12.6	1.2	2.2	1.9	0.2	1.5	0.795088866	1200.0	16.8	1191.7	13.5	1176.6	23.2	-2.0
Spot 207	3048991	2553311	11520.9	3.7	19.3	1.4	0.3	2.3	0.0	1.5	0.66547394	270.4	4.1	264.4	5.4	212.3	40.0	-27.3
Spot 208	10816903	9058378	244317.9	18.9	12.3	1.0	2.4	2.0	0.2	1.7	0.858682064	1276.0	20.2	1255.5	14.6	1220.4	20.4	-4.6
Spot 209	2435697	2039721	39384.1	1.3	19.3	2.1	0.3	2.6	0.0	1.5	0.574496926	284.1	4.1	281.2	6.3	256.8	48.5	-10.7
Spot 210	14370985	12034666	91664.4	32.7	14.0	1.0	1.6	1.9	0.2	1.6	0.852791965	995.8	14.9	982.3	11.9	952.4	20.2	-4.6
Spot 212	7019494	5878321	9110.0	0.9	19.3	0.9	0.3	1.4	0.0	1.1	0.787922411	271.9	2.9	263.7	3.2	191.6	19.9	-41.9
Spot 213	1558909	1305474	17855.8	2.1	17.0	1.2	0.7	1.8	0.1	1.4	0.753975569	556.7	7.4	550.4	7.8	524.4	26.4	-6.2
Spot 214	3122734	2615065	558253.8	338.0	17.0	0.9	0.7	1.9	0.1	1.6	0.868272027	526.6	8.2	531.9	7.8	554.4	20.3	5.0

Spot 215	5624554	4710159	20089.9	45.0	17.1	0.9	0.7	1.6	0.1	1.3	0.817084013	554.0	7.1	547.0	6.9	518.2	20.7	-6.9
Spot 216	6700063	5610821	201364.0	37.9	12.4	0.7	2.3	1.3	0.2	1.1	0.843531217	1198.7	11.6	1201.2	8.8	1205.8	13.3	0.6
Spot 218	1469873	1230913	1763.5	1.4	18.2	4.2	0.2	6.3	0.0	1.7	0.273229516	174.6	3.0	164.7	9.5	24.1	NA	-625.0
Spot 219	4119902	3450121	41746.0	1.6	19.1	1.1	0.3	1.8	0.0	1.5	0.795709564	270.8	3.9	271.1	4.4	273.6	25.4	1.0
Spot 220	1094860	916867	15775.5	3.5	12.4	1.2	2.2	1.8	0.2	1.3	0.738940328	1162.9	14.1	1173.4	12.5	1192.8	23.8	2.5
Spot 222	6193006	5186197	36988.9	47.3	12.6	0.8	2.1	1.4	0.2	1.2	0.825769697	1131.7	12.3	1145.1	9.8	1170.5	16.0	3.3
Spot 224	1308164	1095493	6213.6	3.3	16.6	2.6	0.6	3.5	0.1	1.5	0.4128075	435.8	6.1	449.9	12.8	522.2	70.5	16.5
Spot 226	3258554	2728804	6877.8	2.2	19.5	1.1	0.3	1.9	0.0	1.5	0.796529367	277.7	4.2	264.3	4.5	147.0	27.4	-88.9
Spot 227	6808794	5701875	49311.2	3.3	15.2	1.2	1.0	1.6	0.1	1.1	0.686362717	690.2	7.4	712.1	8.4	781.8	25.0	11.7
Spot 228	2338158	1958039	3497.4	1.2	20.1	3.5	0.1	4.5	0.0	2.6	0.57574083	77.3	2.0	73.8	3.2	NA	NA	
Spot 230	1463508	1225583	4517.2	1.2	21.5	2.1	0.2	4.8	0.0	2.1	0.428847905	192.2	3.9	168.8	7.4	NA	NA	
Spot 231	1798294	1505942	14278.3	3.7	19.0	1.9	0.4	3.2	0.1	2.5	0.779382869	326.1	7.9	319.0	8.7	268.0	45.9	-21.7
Spot 232	2993911	2507185	76412.2	2.0	11.2	1.1	2.9	1.9	0.2	1.5	0.816337488	1364.4	18.9	1380.7	14.2	1406.0	20.8	3.0
Spot 233	1426992	1195003	4376.3	1.5	18.7	2.2	0.3	3.2	0.0	1.8	0.560379659	281.3	4.9	273.7	7.6	209.6	60.7	-34.2
Spot 234	1028619	861394	41557.0	2.5	14.2	1.1	1.4	2.2	0.1	1.9	0.861990219	855.4	15.5	879.2	13.2	939.5	23.3	9.0
Spot 236	5388885	4512803	31369.8	4.0	11.7	0.8	2.5	2.0	0.2	1.8	0.907873513	1241.0	20.6	1270.5	14.5	1320.8	16.3	6.0
Spot 237	4972102	4163778	17613.1	2.6	19.4	0.8	0.3	1.5	0.0	1.3	0.838394897	240.0	3.0	238.9	3.3	228.3	19.3	-5.1
Spot 239	2689397	2252177	20768.3	2.5	18.8	1.9	0.3	2.5	0.0	1.7	0.656890816	289.6	4.7	291.9	6.4	310.2	43.4	6.6
Spot 240	2439080	2042554	33172.8	2.5	13.5	0.8	1.7	1.7	0.2	1.5	0.878968136	1014.4	14.3	1019.9	11.2	1031.9	16.7	1.7
Spot 241	1305151	1092970	37229.1	1.5	12.7	0.8	2.1	2.6	0.2	2.4	0.948279135	1135.3	25.3	1144.5	17.6	1161.9	16.1	2.3
Spot 242	2166643	1814407	13257.8	2.3	12.5	1.1	2.1	2.4	0.2	2.1	0.877106228	1122.1	21.5	1142.9	16.4	1182.5	22.7	5.1
Spot 243	1610221	1348444	25131.0	1.3	18.7	1.8	0.3	2.1	0.0	1.1	0.517086558	279.0	3.0	284.8	5.3	332.8	41.0	16.2
Spot 244	11220530	9396386	11938.3	12.7	16.0	1.5	0.3	1.8	0.0	1.0	0.549758885	224.8	2.2	266.8	4.2	653.4	32.5	65.6
Spot 245	4883372	4089473	10343.8	7.0	19.7	1.6	0.2	2.3	0.0	1.2	0.530215021	174.8	2.1	174.8	3.6	174.7	44.7	0.0
Spot 246	1335370	1118277	3721.7	1.7	19.4	1.7	0.3	2.7	0.0	1.7	0.615870402	275.3	4.5	256.4	6.1	87.1	50.3	-216.0
Spot 247	813978	681648	121782.7	3.2	13.9	1.6	1.5	2.2	0.1	1.5	0.681092999	888.0	12.2	917.5	13.0	989.2	32.1	10.2
Spot 248	1877706	1572444	22172.1	0.7	10.5	0.8	3.6	1.5	0.3	1.2	0.835216217	1557.7	17.1	1542.5	11.8	1521.7	15.4	-2.4
Spot 249	739423	619214	20004.9	2.2	12.6	1.6	2.0	2.5	0.2	1.9	0.766820122	1100.3	19.7	1123.3	17.2	1167.9	32.2	5.8
Spot 250	445796	373322	3397.9	2.0	12.8	7.3	0.3	7.7	0.0	2.4	0.310140479	179.9	4.2	258.0	17.6	1045.3	148.2	82.8
Spot 251	2341789	1961080	52545.2	3.5	11.0	0.8	2.9	1.4	0.2	1.2	0.842675066	1347.2	14.7	1389.6	10.9	1455.3	14.7	7.4
Spot 252	4293760	3595715	105242.7	2.3	17.6	1.3	0.6	1.9	0.1	1.4	0.727884052	477.2	6.3	480.1	7.2	493.8	28.3	3.4
Spot 253	2151298	1801557	36724.4	4.8	12.3	0.8	2.4	1.3	0.2	1.0	0.77763019	1274.5	11.5	1256.1	9.2	1224.8	15.8	-4.1
Spot 254	4714438	3948002	78583564.0	6.6	12.7	0.9	1.8	1.7	0.2	1.4	0.824666311	997.7	12.8	1054.5	11.0	1174.2	18.7	15.0
Spot 255	790508	661994	10230.3	1.9	16.0	1.7	0.8	2.4	0.1	1.6	0.663774894	605.4	9.1	613.2	10.9	642.1	38.0	5.7
Spot 256	6140609	5142318	62824.9	14.3	13.8	0.9	1.5	1.7	0.1	1.5	0.84951883	877.8	12.0	914.0	10.4	1002.3	18.5	12.4
Spot 258	4247055	3556603	7873.5	1.6	18.6	2.7	0.2	3.1	0.0	1.5	0.488515542	164.4	2.4	172.5	4.9	286.1	61.4	42.5
Spot 259	2311285	1935534	5202.2	2.6	18.0	1.6	0.3	2.5	0.0	1.9	0.732767957	298.5	5.4	301.4	6.6	323.4	39.3	7.7
Spot 260	1162198	973257	25740.7	1.8	11.2	0.9	2.8	1.8	0.2	1.6	0.875633613	1311.4	18.5	1347.0	13.3	1404.0	16.5	6.6
Spot 261	577889	483940	5305.1	3.9	12.9	1.2	1.9	1.9	0.2	1.4	0.744488026	1110.4	14.3	1096.0	12.7	1067.6	25.4	-4.0
Spot 262	579202	485040	3009.3	1.6	18.1	3.9	0.2	5.5	0.0	3.6	0.654998429	185.9	6.5	188.3	9.4	217.9	95.4	14.7
Spot 263	1583638	1326183	13363.7	1.9	16.4	2.7	0.4	3.3	0.0	1.8	0.557509641	296.3	5.3	334.3	9.3	607.8	58.6	51.2
Spot 264	1999862	1674741	32801.8	3.0	12.2	1.0	2.2	1.7	0.2	1.3	0.796533006	1167.6	14.3	1189.8	11.8	1230.6	19.9	5.1
Spot 265	4003216	3352406	9666.6	10.5	19.1	1.6	0.3	2.3	0.0	1.5	0.628599063	261.8	3.8	258.5	5.3	229.2	41.9	-14.2

Spot 266	3947671	3305891	19518.5	2.4	18.4	1.3	0.4	1.8	0.1	1.3	0.713166397	324.1	4.1	328.2	5.0	357.4	28.5	9.3
Spot 267	2032836	1702354	11902.7	0.9	18.8	2.9	0.2	3.6	0.0	2.2	0.608272649	217.3	4.7	223.1	7.3	284.3	66.0	23.6
Spot 268	1988872	1665537	28636.5	2.0	19.5	1.5	0.3	2.1	0.0	1.6	0.732010513	274.4	4.2	269.9	5.1	231.6	33.7	-18.5
Spot 271	4103638	3436502	226605.9	8.9	12.6	0.9	2.1	1.7	0.2	1.4	0.853663938	1137.6	15.1	1150.8	11.7	1175.8	17.5	3.3
Spot 272	1109485	929114	441311.4	3.2	9.9	1.2	3.8	2.0	0.3	1.6	0.80188987	1551.7	22.1	1587.9	16.0	1636.3	22.2	5.2
Spot 273	1614965	1352417	9499.2	1.8	18.7	1.7	0.3	2.2	0.0	1.4	0.628943234	287.3	3.9	285.8	5.6	273.3	39.7	-5.1
Spot 274	7142389	5981237	80678.0	1.6	12.9	0.8	1.9	1.8	0.2	1.6	0.892291526	1063.5	15.6	1084.4	11.9	1126.6	16.1	5.6
Spot 275	2651996	2220856	27512.0	2.5	13.3	1.1	1.8	1.8	0.2	1.3	0.76453495	1041.4	12.9	1045.6	11.5	1054.4	22.8	1.2
Spot 276	2421898	2028165	18726.7	4.4	14.1	0.9	1.6	1.8	0.2	1.6	0.86820294	965.4	14.3	953.7	11.4	926.8	18.8	-4.2
Spot 277	3100442	2596397	16203.4	1.2	18.1	1.5	0.5	2.9	0.1	2.4	0.839199902	412.5	9.6	406.7	9.6	373.8	35.0	-10.4
Spot 278	4308844	3608347	16802.7	1.3	18.8	1.9	0.3	2.5	0.0	1.6	0.639791283	302.0	4.7	300.8	6.4	291.6	43.4	-3.6
Spot 279	2582821	2162927	47170.6	8.9	12.2	1.0	2.4	1.6	0.2	1.3	0.784765467	1251.4	14.4	1244.6	11.6	1232.8	19.6	-1.5
Spot 280	1174861	983862	37218.5	5.1	13.7	1.6	1.7	1.9	0.2	1.1	0.554635194	1004.3	10.0	1001.6	12.4	995.5	32.8	-0.9
Spot 281	616846	516564	3324.3	0.7	12.8	4.5	0.6	5.3	0.1	2.5	0.471460333	385.1	9.3	491.7	20.5	1025.1	93.9	62.4
Spot 283	2101637	1759970	30082.3	8.3	12.6	0.8	2.2	1.8	0.2	1.6	0.888962734	1182.0	16.9	1172.6	12.2	1155.2	16.0	-2.3
Spot 285	452659	379069	11580.7	4.1	14.0	1.9	1.4	2.7	0.1	1.9	0.70067337	870.8	15.6	886.1	16.2	924.5	40.2	5.8
Spot 286	2070410	1733819	54846.1	3.1	13.1	0.8	1.9	1.4	0.2	1.2	0.840875274	1102.1	12.2	1098.2	9.6	1090.5	15.5	-1.1
Spot 287	203569	170474	6223.6	1.6	11.9	1.8	2.1	2.6	0.2	1.8	0.693494325	1086.2	17.9	1138.3	17.6	1239.1	36.4	12.3
Spot 288	11529318	9654974	839582.7	8.5	13.9	0.8	1.5	1.6	0.2	1.4	0.875735753	903.2	11.8	923.8	9.7	973.3	15.8	7.2
Spot 289	1799310	1506793	34262.4	1.7	17.1	2.5	0.5	3.7	0.1	2.7	0.729714913	373.7	9.9	394.7	12.2	519.5	55.9	28.1
Spot 290	436301	365371	1063.4	1.0	16.1	7.3	0.2	11.7	0.0	5.3	0.458006604	201.0	10.6	193.0	20.5	96.2	NA	-108.9
Spot 291	458482	383946	3477.0	3.6	12.5	1.4	2.0	2.1	0.2	1.4	0.658978657	1122.5	14.2	1108.4	14.1	1080.8	31.5	-3.9
Spot 292	1621620	1357990	2023.9	1.8	20.1	1.7	0.2	2.5	0.0	1.8	0.714659154	246.7	4.3	208.2	4.7	NA	NA	
Spot 294	557824	467138	33375.1	2.2	14.1	1.1	1.4	1.8	0.1	1.5	0.803235963	861.9	11.8	880.0	10.7	925.7	22.2	6.9
Spot 295	1078988	903575	16650.8	2.2	13.6	1.3	1.7	1.8	0.2	1.2	0.66170154	1008.3	11.1	1000.1	11.4	982.1	27.4	-2.7
Spot 296	3844097	3219154	201651.2	2.1	12.7	1.1	2.0	2.5	0.2	2.2	0.89634278	1103.9	22.3	1119.3	16.6	1149.4	21.6	4.0
Spot 297	2866603	2400574	62145.4	1.5	11.9	0.7	2.7	1.4	0.2	1.2	0.852013044	1339.5	14.8	1316.9	10.6	1280.3	14.6	-4.6
Spot 298	176786	148046	3013.6	0.6	9.3	2.0	3.5	3.3	0.2	2.6	0.795878039	1426.0	33.3	1524.3	25.8	1663.6	36.7	14.3
Spot 299	1388896	1163101	11646.4	2.2	18.2	1.8	0.5	2.6	0.1	1.7	0.662717622	430.1	7.1	416.6	8.8	342.2	43.7	-25.7
Spot 300	3278585	2745579	13466.1	1.0	18.9	1.7	0.3	2.5	0.0	1.8	0.711419802	280.9	4.8	277.8	6.0	251.7	40.1	-11.6
Spot 301	1911908	1601085	4449.3	0.8	18.3	1.5	0.3	2.1	0.0	1.4	0.674342592	237.4	3.2	236.7	4.3	229.6	35.0	-3.4
Spot 302	512970	429576	3679.2	1.1	15.2	4.1	0.8	5.5	0.1	3.6	0.652648914	591.2	20.2	602.9	25.0	647.3	89.3	8.7
Spot 303	629066	526798	49202.0	1.7	13.9	1.7	1.5	2.5	0.1	1.8	0.718629882	898.8	14.9	915.3	14.9	955.4	35.1	5.9
Spot 304	12152626	10176950	264856.0	9.0	12.4	0.8	2.3	1.3	0.2	1.1	0.819782475	1212.1	12.1	1206.4	9.4	1196.2	15.1	-1.3
Spot 305	3543887	2967750	10419.0	3.7	18.3	1.3	0.4	1.7	0.0	1.1	0.635604992	309.5	3.3	310.1	4.6	314.7	30.5	1.7
Spot 306	2799597	2344461	44755.6	3.1	13.5	0.7	1.6	2.2	0.2	2.1	0.946156236	956.0	18.8	973.6	14.0	1013.6	14.7	5.7
Spot 308	2296274	1922964	543299.8	2.2	10.6	0.7	3.3	1.5	0.3	1.2	0.858302661	1470.5	16.4	1478.2	11.3	1489.2	14.1	1.3
Spot 310	778182	651671	6617.5	2.8	13.8	1.5	1.5	2.5	0.2	1.6	0.653278221	921.6	13.9	921.1	15.0	920.1	38.5	-0.2
Spot 312	1461845	1224190	5955.2	2.6	14.4	1.0	1.3	1.8	0.1	1.5	0.84711151	828.4	12.0	824.7	10.3	814.9	20.2	-1.7
Spot 313	2171738	1818674	9387.4	3.0	18.4	1.1	0.6	1.9	0.1	1.3	0.682980323	505.6	6.2	470.4	7.0	302.3	30.9	-67.3
Spot 314	2526574	2115824	37747.0	3.3	13.0	0.9	1.9	1.9	0.2	1.7	0.891338231	1084.3	16.8	1089.0	12.6	1098.4	17.1	1.3
Spot 315	11378427	9528614	59842.7	11.5	13.8	0.8	1.7	1.5	0.2	1.2	0.83384798	1002.3	11.3	990.8	9.2	965.4	16.4	-3.8

Run 3 NM8A (discordant)

Spot 105	5793	4851	1000.0	2.0	5.2	1.0	27.0	1.2	1.0	0.6	0.514177533	4540.9	19.6	3383.6	11.4	2755.1	16.4	-64.8
Spot 113	2386145	1998225	34181.0	8.2	12.1	1.0	2.6	1.6	0.2	1.3	0.794084573	1342.8	15.8	1313.6	12.1	1266.3	19.5	-6.0
Spot 116	1608673	1347148	90411.7	1.2	12.4	1.0	2.5	1.6	0.2	1.3	0.789521254	1282.9	14.8	1258.6	11.6	1217.1	19.4	-5.4
Spot 13	653340	547125	3483.4	3.5	15.5	1.6	1.3	2.8	0.1	2.4	0.831081022	871.4	19.3	841.3	16.3	762.4	33.4	-14.3
Spot 130	1541698	1291061	362660.1	2.9	12.3	0.8	2.5	1.9	0.2	1.8	0.905126945	1304.3	20.7	1274.5	14.1	1224.7	16.2	-6.5
Spot 145	756017	633110	13475.2	2.7	14.5	3.7	1.6	5.2	0.2	3.6	0.701641297	1002.9	33.9	970.0	32.5	896.1	76.4	-11.9
Spot 149	435992	365112	5363.0	1.3	32.7	3.6	0.2	30.2	0.1	30.0	0.992705622	330.4	96.6	203.4	55.8	NA	NA	
Spot 154	452042	378553	5368.5	2.9	15.6	1.8	1.3	2.7	0.2	2.0	0.73590203	913.3	16.9	866.8	15.7	749.7	38.6	-21.8
Spot 164	1549783	1297831	20559.4	3.6	13.2	4.0	2.4	9.8	0.2	8.9	0.913441651	1321.3	106.7	1237.2	70.1	1093.7	79.7	-20.8
Spot 167	965797	808785	8139.2	3.1	13.2	1.1	2.1	1.7	0.2	1.3	0.737856918	1168.2	13.4	1140.5	11.6	1088.1	22.9	-7.4
Spot 169	4725399	3957182	21392.6	7.5	16.1	1.1	1.0	1.6	0.1	1.2	0.750669503	708.7	8.1	699.7	8.1	670.6	22.7	-5.7
Spot 171	2096731	1755862	19560.5	2.7	9.7	0.9	2.6	2.1	0.2	1.8	0.897726095	1094.2	18.5	1306.9	15.1	1675.4	16.7	34.7
Spot 175	1556667	1303596	41660.8	7.8	14.7	1.0	1.5	1.7	0.2	1.3	0.781804908	955.4	11.5	928.8	10.1	866.3	21.5	-10.3
Spot 18	7089212	5936705	35632.3	3.1	11.8	1.1	2.0	2.2	0.2	1.9	0.868522634	1038.5	18.4	1127.3	15.1	1302.6	21.3	20.3
Spot 182	2301731	1927534	24142.8	8.9	12.3	1.6	2.5	2.2	0.2	1.5	0.683856678	1306.1	18.1	1279.6	16.3	1235.4	32.1	-5.7
Spot 183	589617	493761	5065.5	2.3	4.1	11.1	5.5	11.5	0.2	2.9	0.249072802	980.1	26.0	1899.4	99.1	3137.1	177.7	68.8
Spot 19	1249015	1045961	6046.3	1.7	20.9	2.3	0.6	16.1	0.1	15.9	0.99015684	516.6	79.2	445.6	58.2	93.6	53.4	-451.7
Spot 190	442105	370231	565.9	1.2	15.1	7.1	0.3	7.4	0.0	2.2	0.292497817	185.4	4.0	239.4	15.8	808.6	148.5	77.1
Spot 192	2693968	2256004	37466.9	17.1	8.8	9.6	2.0	10.2	0.1	3.5	0.346916226	766.7	25.5	1105.7	68.7	1851.2	173.1	58.6
Spot 201	511165	428064	2659.5	1.9	15.9	4.4	1.1	5.4	0.1	3.1	0.578223957	753.2	22.0	741.7	28.2	706.9	93.1	-6.5
Spot 211	5454288	4567573	297508.4	5.6	14.1	2.6	1.8	3.8	0.2	2.9	0.747172556	1087.2	28.7	1043.3	25.0	952.7	52.2	-14.1
Spot 217	858383	718834	25652.7	2.9	12.4	0.8	2.5	1.6	0.2	1.4	0.861653713	1286.1	16.4	1261.1	11.8	1218.7	16.3	-5.5
Spot 221	690419	578176	2048.8	1.3	23.2	5.9	0.2	13.8	0.0	12.5	0.905592294	190.1	23.5	166.1	21.2	NA	NA	
Spot 223	1007636	843822	5867.2	3.0	17.3	2.0	1.0	2.8	0.1	1.9	0.677857416	786.0	13.9	721.2	14.3	524.6	44.7	-49.8
Spot 225	2506770	2099240	8203.5	1.9	21.8	2.7	0.2	10.9	0.0	10.6	0.968943947	216.4	22.4	198.7	19.7	NA	NA	
Spot 229	3573578	2992614	45901.6	20.2	11.4	0.8	2.1	1.7	0.2	1.5	0.895363607	1054.6	14.9	1164.0	11.8	1373.8	14.6	23.2
Spot 235	274817	230139	3951.4	1.7	14.1	4.3	1.8	8.6	0.2	7.5	0.867406659	1098.7	75.7	1050.9	56.6	952.9	88.0	-15.3
Spot 238	614729	514791	1795.8	3.4	16.3	1.8	1.3	2.6	0.1	1.8	0.715336927	896.7	15.4	828.7	14.5	650.4	38.5	-37.9
Spot 257	625794	524057	2654.8	1.4	28.2	5.8	0.8	8.0	0.2	5.5	0.688195706	1005.2	51.3	611.3	36.8	NA	NA	
Spot 26	2484758	2080806	19378.9	8.8	14.1	1.0	1.7	1.5	0.2	1.2	0.774858113	1032.9	11.3	1006.1	9.8	948.0	19.8	-9.0
Spot 269	556692	466190	547.1	1.8	26.2	10.4	0.1	12.0	0.0	6.0	0.502181155	178.0	10.6	139.3	15.7	NA	NA	
Spot 270	1019146	853461	7255.0	5.0	23.2	4.1	0.1	8.8	0.0	7.7	0.883052116	112.1	8.6	100.7	8.4	NA	NA	
Spot 282	893250	748032	12781.1	1.6	14.2	1.1	1.7	1.9	0.2	1.5	0.815288538	1012.6	14.1	991.5	11.7	945.1	22.0	-7.1
Spot 284	852012	713499	37195.5	1.9	16.2	2.0	1.0	2.7	0.1	1.9	0.697242315	745.3	13.4	726.6	14.1	669.1	41.8	-11.4
Spot 293	630880	528317	1352.9	4.7	19.5	7.4	0.1	12.1	0.0	9.5	0.789719547	100.4	9.5	106.8	12.2	253.7	170.4	60.4
Spot 307	529363	443303	19721.9	3.4	14.7	1.5	1.5	1.9	0.2	1.2	0.620455157	933.7	10.1	915.8	11.3	873.0	30.5	-7.0
Spot 309	1899863	1590998	33286.5	8.6	7.3	2.1	2.3	2.7	0.1	1.7	0.640089738	749.6	12.3	1219.2	19.2	2184.5	36.2	65.7
Spot 311	2743952	2297862	90752.6	2.8	13.2	1.6	1.3	2.4	0.1	1.8	0.746807646	746.2	12.6	836.0	13.7	1083.0	32.0	31.1
Spot 34	10219419	8558028	20199.0	1.9	10.3	1.1	2.1	2.3	0.2	2.0	0.870995098	934.2	17.6	1143.7	16.0	1566.1	21.4	40.3
Spot 43	322965	270460	28405.4	11.7	13.4	2.2	1.3	5.1	0.1	4.7	0.903766411	792.3	34.7	866.6	30.0	1061.6	44.3	25.4
Spot 46	551262	461643	1883.6	4.2	15.2	1.6	1.4	2.1	0.2	1.4	0.650970224	944.4	12.1	903.2	12.6	803.5	33.6	-17.5
Spot 47	1756492	1470935	5815.5	3.7	14.8	1.1	1.5	1.7	0.2	1.3	0.766836509	982.4	12.2	942.0	10.7	848.8	23.2	-15.7
Spot 49	137158	114860	518.1	1.4	26.6	15.3	0.2	25.2	0.0	19.9	0.792562239	206.8	40.6	158.6	37.0	NA	NA	

Spot 59	1598666	1338768	233978.8	2.8	21.3	4.2	0.1	11.7	0.0	11.0	0.934715282	99.1	10.8	96.9	10.8	40.8	NA	-143.0
Spot 64	1069447	895585	48051.9	1.9	15.0	1.1	1.5	2.1	0.2	1.8	0.858200489	963.8	16.2	921.8	12.8	822.8	22.6	-17.1
Spot 70	2125918	1780303	12827.9	2.0	15.8	0.9	1.1	1.7	0.1	1.4	0.827042483	762.2	10.0	751.0	8.9	717.9	20.0	-6.2
Spot 74	1484897	1243495	15149.4	3.2	13.2	1.1	2.1	1.8	0.2	1.4	0.77824703	1204.2	15.4	1164.6	12.5	1091.7	22.7	-10.3
Spot 76	2499201	2092901	59402.1	3.5	10.7	0.8	3.6	1.6	0.3	1.4	0.86711957	1586.8	19.0	1545.2	12.4	1488.8	14.7	-6.6
Spot 81	1054998	883485	13986.4	0.7	13.9	7.0	0.3	9.3	0.0	6.1	0.658560116	200.0	12.0	276.5	22.4	986.6	142.0	79.7
Spot 84	5615514	4702589	1918.1	0.6	10.7	5.1	2.0	5.5	0.2	2.2	0.39353189	908.6	18.5	1098.9	37.2	1498.2	96.3	39.4
Spot 89	14203	11894	1000.0	0.8	5.2	1.0	27.0	1.2	1.0	0.6	0.51417895	4545.3	19.6	3384.8	11.4	2755.1	16.4	-65.0
Spot 95	363006	303991	2698.7	3.3	14.5	3.8	1.7	4.2	0.2	1.7	0.406410475	1043.0	16.5	997.6	26.7	899.0	79.4	-16.0

Run 4

Spot 1	2960639	4730156	13287.1	1.2	17.4	1.2	0.5	2.3	0.1	1.9	0.841986968	396.8	7.4	409.4	7.6	480.6	27.0	17.4
Spot 2	11291205	18039739	34857.6	2.8	20.1	2.1	0.1	2.4	0.0	1.2	0.495950331	70.9	0.8	73.9	1.7	170.5	49.0	58.4
Spot 3	975135	1557955	13346.4	0.7	16.8	1.4	0.7	2.3	0.1	1.7	0.766714071	562.9	9.3	562.9	9.7	563.1	31.5	0.0
Spot 4	906579	1448424	20982.9	3.3	14.6	2.4	1.4	3.7	0.1	2.8	0.757061425	882.6	22.9	877.7	21.6	865.5	49.7	-2.0
Spot 5	2369646	3785938	32923.6	2.6	13.3	0.9	1.7	1.8	0.2	1.6	0.869203288	998.1	14.8	1020.6	11.8	1069.0	18.3	6.6
Spot 6	16716187	26707127	401094.7	10.9	12.9	0.8	1.9	1.4	0.2	1.1	0.811078336	1060.5	11.1	1085.1	9.3	1134.9	16.3	6.6
Spot 7	6599626	10544093	1058804.7	5.9	16.5	1.0	0.8	1.6	0.1	1.3	0.775754324	587.6	7.1	598.2	7.4	638.5	22.1	8.0
Spot 8	4790081	7653020	152593.9	4.8	11.5	0.8	2.7	1.5	0.2	1.2	0.844256979	1294.8	14.6	1323.0	10.9	1369.1	15.2	5.4
Spot 9	6565869	10490162	130011.4	7.7	12.7	0.7	2.0	1.3	0.2	1.1	0.856531048	1082.3	11.4	1116.0	9.1	1182.3	13.7	8.5
Spot 10	1597562	2552393	7109.1	17.8	16.2	1.5	0.9	2.0	0.1	1.3	0.666842687	634.9	7.9	628.1	9.2	603.3	31.8	-5.2
Spot 11	1233109	1970114	13251.8	0.6	15.6	2.5	1.1	3.7	0.1	2.7	0.722918488	741.9	18.8	737.1	19.4	722.7	54.3	-2.6
Spot 13	451075	720674	8440.5	2.6	13.2	3.1	1.6	4.6	0.2	3.3	0.716093643	959.6	29.2	987.3	28.9	1049.5	64.5	8.6
Spot 15	1392644	2225000	41222.1	8.5	12.5	0.9	2.2	1.7	0.2	1.5	0.855763487	1151.7	15.5	1168.9	11.9	1200.8	17.5	4.1
Spot 16	2194554	3506196	6223.1	3.1	19.3	1.5	0.3	3.4	0.0	2.1	0.606152964	235.8	4.8	231.4	7.1	186.9	63.3	-26.1
Spot 17	731557	1168795	740.6	1.2	17.9	4.6	0.1	5.0	0.0	1.9	0.384865704	173.7	3.3	128.7	6.0	NA	NA	
Spot 18	6004265	9592898	36820.6	21.5	12.2	0.8	2.3	1.4	0.2	1.1	0.820136873	1166.3	12.1	1196.9	9.7	1252.5	15.5	6.9
Spot 19	3961053	6328497	104379.5	3.3	12.2	0.9	2.3	1.7	0.2	1.4	0.850690812	1211.6	16.0	1225.9	12.1	1251.1	17.5	3.2
Spot 20	3117913	4981429	180060.1	8.3	12.1	0.7	2.3	1.7	0.2	1.5	0.896921997	1187.6	16.2	1214.9	11.8	1263.8	14.4	6.0
Spot 21	2609975	4169906	14841.1	7.5	10.2	1.6	1.1	2.1	0.1	1.3	0.604805841	507.2	6.1	754.9	11.0	1581.5	30.8	67.9
Spot 22	2918899	4663468	339169.0	3.8	12.1	0.9	2.3	1.7	0.2	1.5	0.860563891	1171.4	16.0	1207.0	12.3	1271.2	17.3	7.9
Spot 23	2847349	4549155	90857.6	6.1	13.7	1.2	1.7	2.1	0.2	1.7	0.809060804	1005.4	15.5	1013.4	13.2	1030.8	24.5	2.5
Spot 24	2062631	3295425	13623.6	256.1	16.3	1.2	0.8	2.3	0.1	1.9	0.836885789	609.8	11.3	613.9	10.7	628.8	27.4	3.0
Spot 25	753719	1204202	8338.8	3.0	12.8	2.6	1.9	5.5	0.2	4.8	0.881087842	1083.4	48.3	1097.0	36.9	1124.1	51.8	3.6
Spot 26	4349726	6949473	28088.2	24.0	12.4	0.9	2.1	1.7	0.2	1.4	0.830226383	1132.8	14.5	1164.6	11.6	1224.1	18.4	7.5
Spot 27	2493154	3983263	825.5	3.8	19.7	3.8	0.0	4.9	0.0	2.6	0.539334469	68.3	1.8	47.8	2.3	NA	NA	
Spot 28	3288667	5254239	105093.3	4.4	13.9	0.8	1.6	1.4	0.2	1.2	0.831617118	941.8	10.5	960.3	9.0	1002.7	16.2	6.1
Spot 31	1054129	1684161	5723.4	1.1	16.9	1.4	0.6	2.1	0.1	1.3	0.632972212	509.0	6.4	506.0	8.3	492.1	35.5	-3.4
Spot 32	10270882	16409588	22138.4	17.9	17.6	0.8	0.4	1.5	0.0	1.3	0.830280131	292.6	3.6	313.7	4.1	473.1	18.6	38.1
Spot 33	10450097	16695917	29771.2	9.4	17.3	0.9	0.6	1.5	0.1	1.2	0.77713275	479.1	5.4	485.9	5.8	518.5	20.8	7.6
Spot 34	2660958	4251361	10717.7	10.6	19.5	1.6	0.3	2.4	0.0	1.5	0.636776397	232.8	3.5	230.2	4.9	203.7	42.8	-14.3
Spot 35	1508846	2410654	30720.3	1.7	19.2	1.8	0.3	3.2	0.0	2.6	0.823317039	265.5	6.9	268.1	7.5	290.7	41.5	8.7
Spot 36	4345406	6942570	2403354.5	44.5	11.2	0.8	3.1	1.3	0.3	1.1	0.824115025	1442.1	14.3	1433.9	10.3	1421.8	14.5	-1.4
Spot 37	964734	1541337	39910.7	4.2	11.7	0.9	2.6	1.5	0.2	1.2	0.786091192	1256.2	13.4	1287.4	10.9	1339.8	17.8	6.2

Spot 38	385494	615897	17438.3	2.1	14.0	1.8	1.4	2.5	0.1	1.8	0.697771077	863.0	14.4	892.3	15.1	965.7	37.3	10.6
Spot 40	4509056	7204031	145081.0	19.4	19.9	1.0	0.3	1.7	0.0	1.3	0.799402005	243.0	3.2	240.6	3.6	217.9	23.3	-11.5
Spot 41	6806526	10874654	12035.9	4.4	20.1	2.5	0.1	3.4	0.0	2.3	0.672941604	77.7	1.8	79.9	2.6	145.1	58.6	46.5
Spot 42	1625898	2597666	38978.2	1.3	10.1	0.8	3.7	1.8	0.3	1.6	0.882675382	1538.1	21.4	1574.6	14.2	1623.8	15.5	5.3
Spot 44	736701	1177013	14423.2	1.6	12.0	1.1	2.4	2.0	0.2	1.6	0.794304397	1214.4	17.2	1237.0	14.0	1276.7	23.2	4.9
Spot 45	3012446	4812926	34070.2	2.0	18.1	1.4	0.5	2.0	0.1	1.4	0.714466803	431.0	5.8	430.4	6.9	426.7	30.6	-1.0
Spot 46	4985726	7965598	25398.0	4.9	16.3	0.8	0.9	1.8	0.1	1.6	0.884846105	628.3	9.5	632.5	8.4	647.6	17.9	3.0
Spot 47	1521020	2430103	653.3	3.3	20.8	3.3	0.0	4.5	0.0	2.0	0.440219464	66.6	1.3	35.6	1.6	NA	NA	
Spot 48	10816115	17280697	35179.7	2.3	11.3	0.9	2.8	1.7	0.2	1.4	0.837093245	1333.5	17.2	1358.9	12.8	1398.9	17.9	4.7
Spot 49	1627885	2600840	13543.8	2.6	12.8	0.9	1.9	1.6	0.2	1.2	0.780541709	1061.8	11.9	1087.3	10.4	1138.7	19.3	6.8
Spot 50	4433427	7083200	303462.6	13.2	8.1	0.8	5.8	1.6	0.3	1.4	0.864039696	1874.2	22.4	1950.3	13.8	2032.0	14.2	7.8
Spot 51	2050961	3276780	16307.4	1.4	18.6	1.9	0.3	2.4	0.0	1.5	0.603574522	259.2	3.8	267.9	5.8	344.5	44.2	24.8
Spot 52	1069328	1708445	8241.9	3.4	13.5	1.2	1.7	1.8	0.2	1.4	0.761373384	994.7	12.6	1000.9	11.5	1014.4	23.6	1.9
Spot 53	3213078	5133472	32469.3	4.2	15.9	0.9	1.0	1.7	0.1	1.4	0.832860931	675.8	9.0	683.4	8.4	708.4	19.8	4.6
Spot 54	4491501	7175983	66981.3	4.4	13.2	1.0	1.8	1.5	0.2	1.1	0.731024095	1015.7	10.1	1041.0	9.6	1094.4	20.1	7.2
Spot 55	1860239	2972068	9361.8	1.4	16.8	0.9	0.7	1.7	0.1	1.4	0.844415104	567.2	7.8	563.2	7.3	546.7	19.8	-3.8
Spot 57	226760	362291	2797.0	2.8	12.3	3.7	2.0	5.5	0.2	3.7	0.662912082	1115.6	37.5	1115.8	37.4	1116.3	82.6	0.1
Spot 58	523940	837089	4033.0	2.9	12.0	2.4	2.0	3.1	0.2	1.9	0.608692359	1081.8	18.5	1122.3	20.8	1201.6	47.8	10.0
Spot 59	715302	1142823	34481.3	2.4	14.1	1.5	1.5	2.3	0.2	1.7	0.732402094	946.6	14.6	946.9	13.9	947.6	31.6	0.1
Spot 60	1654821	2643875	11545.0	2.5	18.2	2.0	0.4	2.6	0.1	1.6	0.610382407	347.7	5.4	350.3	7.8	368.2	46.7	5.6
Spot 61	1602293	2559953	197463.4	7.3	12.4	1.0	2.3	1.8	0.2	1.5	0.82958433	1210.2	16.7	1213.8	12.9	1220.4	20.1	0.8
Spot 62	1627598	2600381	32392.1	5.7	12.9	2.6	1.9	2.8	0.2	1.2	0.410343997	1040.4	11.1	1071.0	18.6	1133.8	51.2	8.2
Spot 63	429682	686494	3349.8	3.4	12.4	3.1	1.6	3.5	0.2	1.6	0.438844208	909.3	13.2	971.5	22.2	1114.9	63.6	18.4
Spot 64	1188949	1899560	39537.3	2.3	19.1	1.4	0.3	1.9	0.0	1.3	0.688978225	275.4	3.5	276.9	4.6	290.1	31.5	5.1
Spot 65	18382634	29369578	53023.3	18.5	13.3	0.9	1.5	1.6	0.1	1.3	0.834169088	886.2	11.1	940.9	9.9	1071.3	17.8	17.3
Spot 66	6744889	10776179	42896.7	9.4	13.4	0.9	1.2	2.7	0.1	2.6	0.938952826	692.6	16.8	785.9	14.9	1060.8	18.9	34.7
Spot 67	1102164	1760905	57437.1	2.7	14.3	2.6	1.6	4.8	0.2	4.0	0.841051925	972.3	36.2	959.2	29.6	929.3	53.0	-4.6
Spot 68	1945240	3107872	214053.7	2.6	10.7	0.8	3.2	1.5	0.2	1.2	0.830057276	1407.4	15.7	1446.6	11.6	1504.6	15.8	6.5
Spot 69	1875655	2996698	5260.6	1.1	18.4	1.7	0.3	3.2	0.0	2.0	0.605500604	282.9	5.4	282.6	8.0	279.9	59.0	-1.1
Spot 70	3713837	5933526	20066.8	10.0	15.9	0.9	0.9	1.4	0.1	1.1	0.743554088	659.8	6.7	665.2	7.0	683.5	20.4	3.5
Spot 71	5938327	9487549	12119.6	14.0	20.1	1.6	0.2	2.7	0.0	2.2	0.799224066	226.4	4.9	218.6	5.4	134.9	38.6	-67.8
Spot 73	2312275	3694276	20405.0	2.0	18.8	1.2	0.3	2.0	0.0	1.6	0.7890935	260.5	4.0	265.6	4.7	311.0	28.0	16.2
Spot 74	2237394	3574642	89494.1	1.1	17.3	1.9	0.6	2.9	0.1	2.1	0.745046753	450.6	9.3	461.6	10.6	516.8	41.9	12.8
Spot 75	2805662	4482552	92736.9	3.0	12.5	1.0	2.1	1.6	0.2	1.3	0.792744794	1142.8	13.1	1160.6	10.9	1194.0	19.0	4.3
Spot 76	858732	1371980	3128.1	4.3	16.6	2.5	0.4	3.7	0.1	1.4	0.375171491	347.9	4.7	358.3	11.3	426.0	77.3	18.3
Spot 77	1818358	2905156	98380.8	2.8	16.2	1.7	0.8	2.4	0.1	1.6	0.693987478	564.9	8.9	582.4	10.5	651.1	36.6	13.2
Spot 78	1606635	2566890	17263.2	2.0	19.0	1.7	0.3	2.4	0.0	1.7	0.68299664	273.0	4.4	273.1	5.8	273.5	40.5	0.2
Spot 79	5354014	8554003	8019.0	1.6	19.1	1.2	0.3	1.7	0.0	1.2	0.723041449	262.2	3.2	258.2	3.9	221.9	27.3	-18.2
Spot 81	1491724	2383299	7989.2	1.2	18.5	3.0	0.3	3.6	0.0	1.9	0.520133934	267.1	4.9	269.4	8.6	289.5	70.7	7.7
Spot 83	1578025	2521179	50507.3	3.2	13.8	0.9	1.6	1.4	0.2	1.1	0.788351244	980.3	10.0	980.4	8.8	980.5	17.5	0.0
Spot 84	494706	790382	6675.9	1.8	13.4	2.1	1.4	4.8	0.1	4.3	0.899778173	835.2	33.9	882.5	28.3	1003.0	42.6	16.7
Spot 85	1702978	2720815	16078.3	1.2	13.7	1.1	1.5	1.9	0.2	1.5	0.791188865	931.2	12.9	947.9	11.6	986.8	23.5	5.6
Spot 86	1613642	2578084	1805.0	1.1	20.6	2.0	0.2	3.6	0.0	3.0	0.811149719	176.3	5.1	145.3	4.9	NA	NA	

Spot 87	8800814	14060889	35757.8	1.9	19.1	0.9	0.3	1.4	0.0	1.1	0.775720871	267.7	2.9	268.5	3.3	275.7	20.3	2.9
Spot 89	4471581	7144158	43265.7	1.5	19.4	1.4	0.2	2.2	0.0	1.7	0.777327078	223.2	3.7	224.9	4.4	242.0	31.9	7.7
Spot 90	1018082	1626569	3601.3	1.6	17.7	4.0	0.2	4.5	0.0	2.0	0.436762035	166.8	3.3	175.6	7.3	296.5	92.8	43.8
Spot 91	3569954	5703646	31236.5	2.5	12.6	1.1	2.0	1.6	0.2	1.2	0.746974201	1079.1	11.9	1109.1	10.8	1168.3	21.1	7.6
Spot 92	2154421	3442076	5586.1	10.0	17.7	2.9	0.3	3.7	0.0	1.8	0.493805798	240.2	4.3	251.4	8.2	357.4	72.6	32.8
Spot 93	1678063	2681009	9099.3	1.3	19.1	2.7	0.2	3.6	0.0	2.3	0.642860039	200.8	4.5	202.7	6.6	225.0	63.2	10.7
Spot 95	2723227	4350846	864.7	1.8	20.7	3.4	0.0	5.7	0.0	3.6	0.628589959	56.6	2.0	37.3	2.1	NA	NA	
Spot 96	1764285	2818763	4912.4	1.6	20.6	2.3	0.2	3.3	0.0	2.1	0.645795788	165.0	3.4	152.3	4.6	NA	NA	
Spot 97	1448346	2313993	18164.9	1.9	18.4	1.3	0.3	2.0	0.0	1.5	0.752024525	267.3	4.0	274.5	4.9	337.1	30.2	20.7
Spot 99	1790248	2860244	32652.8	3.7	14.2	1.1	1.5	4.6	0.2	4.4	0.971874528	923.1	38.3	920.2	27.7	913.2	22.2	-1.1
Spot 100	2026083	3237033	17362.5	13.1	13.8	1.1	1.6	1.8	0.2	1.4	0.77548757	981.0	12.7	977.2	11.3	968.8	23.3	-1.2
Spot 101	351095	560938	8325.7	2.3	14.1	1.5	1.4	2.4	0.1	1.5	0.640811342	895.9	12.6	893.7	14.0	888.1	37.4	-0.9
Spot 102	1742121	2783353	364795.2	2.5	12.1	1.0	2.4	1.5	0.2	1.2	0.770461696	1214.9	13.1	1228.1	10.9	1251.4	19.1	2.9
Spot 103	6224514	9944786	4572.3	1.7	14.1	1.2	0.7	1.9	0.1	1.5	0.786701353	449.6	6.6	522.5	7.9	855.1	24.8	47.4
Spot 105	639546	1021791	1343.5	1.0	16.8	4.3	0.3	5.5	0.0	3.2	0.59055595	247.8	7.8	235.5	11.5	114.3	103.9	-116.8
Spot 106	791873	1265159	4568.4	3.0	16.6	2.4	0.6	2.9	0.1	1.6	0.549616472	472.1	7.3	473.9	11.0	482.9	53.8	2.3
Spot 107	484171	773551	5380.7	2.4	12.4	1.3	2.2	2.5	0.2	1.8	0.693902199	1197.3	19.2	1178.1	17.6	1142.9	36.2	-4.8
Spot 108	2956230	4723112	12814.7	1.1	19.9	2.1	0.2	3.0	0.0	2.2	0.736145624	163.3	3.6	162.1	4.6	144.0	48.3	-13.5
Spot 109	4776414	7631184	4821026.6	7.4	11.9	0.9	2.4	1.8	0.2	1.6	0.859142954	1218.1	17.6	1240.4	13.2	1279.3	18.4	4.8
Spot 110	723938	1156621	5841.0	1.4	5.2	16.6	0.7	17.0	0.0	3.6	0.215120695	179.5	6.5	562.1	73.4	2741.5	274.6	93.5

Run 4 NM8A (discordant)

Spot 104	340681	544300	7526.6	1.7	11.9	2.8	1.9	4.4	0.2	3.4	0.774972995	986.9	31.4	1086.8	29.6	1293.0	54.4	23.7
Spot 12	358968	573516	1191.3	1.4	17.8	6.6	0.2	8.9	0.0	6.0	0.676079042	175.6	10.5	197.1	16.0	463.1	146.1	62.1
Spot 14	2651014	4235473	5667.2	1.3	20.5	2.5	0.3	7.1	0.0	6.7	0.935729808	287.3	18.8	271.7	17.0	139.3	59.1	-106.3
Spot 29	316169	505137	592.9	1.7	31.6	12.2	0.1	14.2	0.0	7.2	0.507756888	192.7	13.7	126.2	16.8	NA	NA	
Spot 30	1892053	3022896	5059.6	0.7	20.9	2.5	0.2	9.6	0.0	9.2	0.964907601	188.8	17.2	181.5	15.9	87.0	59.6	-117.1
Spot 39	853750	1364020	664929.8	2.4	11.7	1.6	2.9	4.3	0.2	4.0	0.928641057	1429.4	51.2	1388.5	32.5	1326.3	30.9	-7.8
Spot 43	201351	321694	304.7	1.4	31.2	12.9	0.1	18.8	0.0	13.7	0.726172518	169.9	22.9	113.2	20.2	NA	NA	
Spot 56	615365	983156	2723.8	2.8	15.6	1.7	1.3	2.3	0.1	1.5	0.665396863	882.0	12.6	845.0	13.1	749.1	36.1	-17.7
Spot 72	299074	477824	259.3	1.3	91.9	8.9	0.0	10.1	0.0	4.8	0.478858447	189.3	9.0	44.4	4.4	NA	NA	
Spot 80	3873664	6188877	144188.9	5.5	15.9	2.9	1.3	14.8	0.2	14.5	0.980719735	930.3	126.0	864.0	86.5	697.4	61.7	-33.4
Spot 82	1754750	2803530	4539.2	1.6	23.7	2.2	0.2	9.7	0.0	9.4	0.972995699	263.5	24.3	220.2	19.2	NA	NA	
Spot 88	1381537	2207255	32285.2	3.9	13.0	1.0	2.2	1.5	0.2	1.2	0.781809447	1206.3	13.3	1174.6	10.7	1116.7	19.2	-8.0
Spot 94	271791	434235	711.3	2.2	17.1	14.5	0.3	19.5	0.0	12.9	0.664517535	201.7	25.7	231.0	40.2	540.8	319.6	62.7
Spot 98	490018	782892	9515.8	3.4	16.3	2.3	1.0	3.2	0.1	2.2	0.687646786	752.4	15.5	727.7	16.5	652.3	49.5	-15.3

TABLE S21: NM8A (CA) LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

Zircon #	Composition									Ages							% Disc.	
	U (238 cps)	U (norm) (238 cps)	206Pb/ 204Pb	U/Th	206Pb/ 1 σ 207Pb (%)	207Pb/ 1 σ 235U (%)	206Pb/ 1 σ 238U (%)	Error Corr.	206Pb/ 238U	1 σ (Ma)	207Pb/ 235U	1 σ (Ma)	206Pb/ 207Pb	1 σ (Ma)				
Run 1																		
Spot 1	463595	451050	1366.9	1.7	23.6	4.0	0.2	5.4	0.0	3.6	0.6737943	192.1	6.9	165.0	8.2	NA	NA	
Spot 10	747837	727600	14651.5	1.9	19.3	3.6	0.2	6.9	0.0	5.9	0.8521062	210.3	12.1	216.3	13.4	281.7	82.4	25.4
Spot 100	685833	667273	6282.3	2.8	12.7	2.1	2.2	2.4	0.2	1.3	0.5137164	1167.4	13.4	1165.9	17.0	1162.9	41.6	-0.4
Spot 101	1386480	1348959	18225.5	4.0	11.9	1.0	2.4	1.8	0.2	1.5	0.8391952	1227.6	16.9	1248.4	12.9	1284.5	19.1	4.4
Spot 102	1016159	988660	1143.2	3.0	29.0	6.7	0.0	7.5	0.0	3.4	0.4568288	56.8	1.9	41.8	3.1	NA	NA	
Spot 103	3327115	3237077	67225.5	2.5	14.1	1.0	1.4	2.9	0.1	2.7	0.9365422	871.8	22.1	895.5	17.2	954.4	20.7	8.7
Spot 104	715609	696243	13185.7	1.2	20.2	2.7	0.3	3.8	0.0	2.6	0.6973488	304.8	7.8	289.9	9.5	171.2	63.1	-78.1
Spot 105	911613	886943	17214.8	2.4	12.8	1.5	2.2	2.1	0.2	1.4	0.6776112	1176.5	15.1	1169.3	14.4	1155.9	30.3	-1.8
Spot 108	2067378	2011431	8014.8	1.3	20.1	1.9	0.3	2.3	0.0	1.4	0.5915896	274.4	3.7	265.0	5.4	182.5	43.7	-50.3
Spot 113	2035225	1980148	61531.1	1.7	12.1	0.9	2.4	2.0	0.2	1.8	0.8913702	1246.0	20.3	1250.8	14.4	1259.1	17.8	1.0
Spot 114	353179	343621	9859.2	2.3	18.2	4.0	0.3	4.5	0.0	2.1	0.4680306	228.9	4.8	245.4	9.8	405.5	89.4	43.5
Spot 116	1030991	1003091	4344.4	2.1	19.5	2.9	0.3	4.2	0.0	3.1	0.732879	256.4	7.8	255.6	9.5	248.7	66.1	-3.1
Spot 118	1902760	1851267	29485.8	1.5	19.4	1.5	0.3	2.3	0.0	1.8	0.7730178	279.4	4.9	277.6	5.7	262.8	34.0	-6.3
Spot 12	3444230	3351023	339857.5	39.5	14.8	3.1	0.9	3.5	0.1	1.6	0.4684793	614.2	9.6	669.6	17.2	860.9	64.2	28.7
Spot 120	528868	514556	18568.0	1.3	14.7	7.1	0.3	9.2	0.0	5.8	0.6297216	170.5	9.7	228.2	18.8	874.7	148.2	80.5
Spot 121	453775	441495	651.5	1.5	20.6	25.0	0.2	25.2	0.0	3.6	0.1417415	190.8	6.7	186.2	42.9	128.3	NA	-48.7
Spot 122	3316014	3226277	27434.6	7.5	12.3	0.7	2.3	1.5	0.2	1.3	0.8770754	1211.3	14.5	1219.9	10.6	1235.3	14.1	1.9
Spot 123	2836352	2759595	44967.1	1.5	19.9	2.6	0.1	3.2	0.0	1.8	0.5596839	61.0	1.1	64.8	2.0	207.9	61.3	70.7
Spot 124	2575192	2505503	8498.2	4.9	19.8	1.4	0.3	1.9	0.0	1.3	0.6954399	245.9	3.2	243.1	4.1	215.9	31.3	-13.9
Spot 125	1999448	1945340	3963.2	3.4	21.2	1.9	0.1	2.6	0.0	1.8	0.6704559	146.5	2.5	141.5	3.5	57.6	46.3	-154.3
Spot 126	2726050	2652278	35456.6	3.2	19.6	1.5	0.3	2.3	0.0	1.8	0.7726921	243.1	4.3	243.0	5.1	241.7	34.4	-0.6
Spot 128	1936562	1884155	9759.0	3.7	20.5	3.3	0.2	6.4	0.0	5.4	0.8523262	192.0	10.3	187.5	10.9	131.5	78.6	-46.1
Spot 129	591657	575646	7664.9	4.6	13.0	1.1	1.9	2.3	0.2	2.0	0.8709683	1081.9	19.7	1094.7	15.2	1120.3	22.3	3.4
Spot 13	1653408	1608664	35493.2	6.0	19.0	2.5	0.3	3.8	0.0	3.0	0.7699817	242.2	7.0	248.4	8.5	306.7	55.9	21.0
Spot 130	1417306	1378952	6861.2	1.8	20.4	1.7	0.3	2.5	0.0	1.9	0.7538698	275.7	5.2	262.4	5.9	146.0	39.1	-88.8
Spot 131	1756718	1709178	23251.5	193.9	16.3	1.9	0.7	4.3	0.1	3.9	0.9005616	496.6	18.5	524.2	17.6	646.4	40.1	23.2
Spot 132	1032143	1004211	26832.4	1.7	14.2	1.0	1.4	1.8	0.1	1.5	0.821668	894.9	12.4	906.0	10.8	933.3	21.1	4.1
Spot 133	1532094	1490633	10796.0	3.5	13.1	0.7	1.9	3.3	0.2	3.3	0.975334	1053.9	31.6	1072.3	22.1	1110.0	14.7	5.1
Spot 134	1053403	1024896	36080.1	1.7	11.6	1.0	2.7	1.9	0.2	1.7	0.8619635	1306.8	19.6	1318.7	14.2	1337.9	18.8	2.3
Spot 135	1197225	1164826	13791.8	2.9	12.3	1.2	2.3	1.6	0.2	1.1	0.6759719	1227.1	12.3	1227.5	11.6	1228.4	23.5	0.1
Spot 136	1489408	1449102	30055.0	4.9	13.9	1.0	1.6	2.2	0.2	2.0	0.9005995	967.8	17.9	973.2	13.8	985.5	19.5	1.8
Spot 137	664351	646372	14313.4	2.5	13.6	2.5	1.4	3.8	0.1	2.9	0.7639931	846.1	23.1	899.7	22.8	1033.8	49.8	18.2
Spot 138	2372052	2307860	9099.0	1.2	19.5	1.2	0.3	1.8	0.0	1.4	0.7368186	273.6	3.6	271.4	4.4	252.7	28.7	-8.3
Spot 139	302840	294645	970.6	1.3	29.1	15.2	0.2	16.1	0.0	5.3	0.3300656	203.5	10.6	143.5	21.6	NA	NA	
Spot 140	864730	841329	6950.3	5.6	15.3	2.7	1.0	3.6	0.1	2.4	0.674998	700.0	16.1	720.5	18.6	784.6	55.9	10.8
Spot 141	1801996	1753231	39748.3	4.0	10.6	0.9	3.5	1.6	0.3	1.4	0.8343084	1529.1	18.5	1525.4	12.8	1520.1	16.9	-0.6
Spot 142	3492020	3397519	71091.1	0.7	20.5	1.3	0.2	1.8	0.0	1.2	0.6791409	171.4	2.0	169.0	2.7	134.5	30.2	-27.5
Spot 143	1311761	1276263	7066.4	4.2	12.5	1.6	2.3	2.3	0.2	1.6	0.7171186	1204.3	18.1	1199.5	16.2	1190.8	31.6	-1.1

Spot 144	1714269	1667878	31743.8	3.1	13.5	1.0	1.8	1.7	0.2	1.3	0.8038831	1019.4	12.5	1027.8	10.7	1045.5	19.9	2.5
Spot 145	1125750	1095286	14939.9	2.5	12.8	0.9	2.0	1.5	0.2	1.2	0.8218622	1088.6	12.3	1110.6	10.1	1153.8	16.9	5.6
Spot 146	407105	396088	3581.1	3.0	14.7	3.8	1.2	7.1	0.1	6.0	0.8444627	757.2	42.7	784.9	38.7	864.2	78.6	12.4
Spot 147	1886992	1835926	6490.4	9.7	20.3	1.5	0.3	1.9	0.0	1.2	0.6240334	239.1	2.7	232.3	3.9	164.5	33.9	-45.4
Spot 148	569187	553783	6770.0	2.6	20.1	2.7	0.3	3.4	0.0	2.1	0.6213561	247.0	5.1	241.3	7.3	186.5	61.8	-32.4
Spot 15	1114443	1084284	26587.7	3.0	12.7	1.0	2.1	2.0	0.2	1.7	0.8757939	1156.5	18.4	1161.3	13.7	1170.4	19.0	1.2
Spot 150	2932570	2853209	38684.5	1.4	19.9	2.3	0.2	3.0	0.0	1.9	0.6428239	171.6	3.3	173.9	4.8	205.1	53.2	16.4
Spot 153	1563580	1521267	35513.5	2.6	12.7	0.8	2.2	1.4	0.2	1.2	0.8246656	1183.2	12.6	1175.3	9.9	1160.9	15.9	-1.9
Spot 156	939437	914014	16998.4	3.0	12.9	1.1	2.0	2.0	0.2	1.6	0.8140849	1085.5	16.0	1102.3	13.3	1135.8	22.8	4.4
Spot 157	1159771	1128386	6597.2	15.7	15.3	1.2	1.1	2.0	0.1	1.6	0.7998159	740.0	11.3	751.2	10.8	784.8	25.6	5.7
Spot 158	1077997	1048825	9031.3	3.9	14.2	1.2	1.4	1.9	0.1	1.5	0.7798786	889.1	12.6	903.4	11.7	938.4	25.0	5.2
Spot 159	1036186	1008145	16808.3	1.9	14.0	1.7	1.4	2.0	0.1	1.0	0.518724	878.2	8.6	903.0	12.0	964.0	35.1	8.9
Spot 16	152484	148358	2081.6	1.7	12.2	5.5	2.0	6.8	0.2	3.9	0.5805813	1062.0	38.6	1121.6	46.1	1238.9	108.4	14.3
Spot 160	1570129	1527638	15672.3	2.9	12.9	0.7	2.1	1.2	0.2	0.9	0.7890422	1138.1	9.7	1135.4	8.1	1130.2	14.4	-0.7
Spot 161	1539504	1497842	173801.2	3.9	12.5	0.8	2.3	1.9	0.2	1.7	0.9054171	1204.9	19.0	1203.9	13.5	1201.9	16.0	-0.3
Spot 162	2490298	2422906	71155.7	1.3	18.9	1.5	0.3	2.7	0.0	2.2	0.8218453	262.7	5.7	269.4	6.4	328.2	34.8	20.0
Spot 164	1115619	1085428	24568.2	1.8	13.1	1.0	1.9	1.4	0.2	1.0	0.6796886	1066.4	9.4	1077.0	9.3	1098.4	20.6	2.9
Spot 165	4243241	4128411	17092.8	2.0	20.5	1.4	0.2	2.1	0.0	1.6	0.7591759	166.0	2.7	164.1	3.2	136.2	32.7	-21.9
Spot 167	4548387	4425299	26531.1	1.2	19.2	1.4	0.3	1.9	0.0	1.3	0.6776723	281.0	3.6	281.8	4.7	288.5	32.0	2.6
Spot 168	3336185	3245902	6826.8	1.0	19.7	1.7	0.3	2.9	0.0	2.3	0.8011866	282.0	6.5	275.8	7.1	223.6	40.5	-26.1
Spot 169	1717052	1670585	2565.6	1.5	22.0	2.5	0.3	2.9	0.0	1.4	0.4946789	290.7	4.0	258.2	6.5	NA	NA	
Spot 17	2038418	1983255	428800.1	3.2	12.5	1.3	2.2	3.1	0.2	2.8	0.9098996	1159.4	29.5	1171.7	21.2	1194.5	25.0	2.9
Spot 170	3338266	3247926	13443.8	1.2	19.6	1.6	0.3	2.4	0.0	1.8	0.7437313	281.0	4.9	276.3	5.8	237.0	37.1	-18.6
Spot 172	2367120	2303061	30490.3	3.6	12.4	1.0	2.2	1.9	0.2	1.6	0.8384468	1175.4	16.9	1189.9	13.1	1216.4	20.1	3.4
Spot 173	1511771	1470859	11371.6	2.3	12.8	0.9	2.2	1.9	0.2	1.7	0.8825285	1195.7	18.6	1179.8	13.4	1150.7	18.0	-3.9
Spot 174	1438589	1399658	194742.4	1.6	13.4	1.0	1.8	1.6	0.2	1.3	0.8042949	1033.3	12.3	1041.6	10.5	1058.9	19.2	2.4
Spot 176	1389826	1352215	3955.8	1.5	18.5	1.2	0.6	2.1	0.1	1.7	0.8169964	485.1	7.9	465.9	7.7	372.3	26.9	-30.3
Spot 177	5560652	5410171	32069.7	4.6	19.7	1.3	0.3	1.9	0.0	1.4	0.7453273	234.0	3.3	233.1	4.0	223.7	29.8	-4.6
Spot 179	671604	653429	1389.0	1.6	24.3	3.4	0.2	4.2	0.0	2.5	0.5938901	198.4	4.9	165.9	6.4	NA	NA	
Spot 180	3758143	3656441	26145.8	1.5	19.3	1.5	0.3	2.2	0.0	1.5	0.7052508	282.0	4.2	281.6	5.3	278.1	35.2	-1.4
Spot 181	610846	594315	1158.3	1.1	27.1	11.6	0.2	12.1	0.0	3.4	0.2808338	197.0	6.6	148.7	16.7	NA	NA	
Spot 182	1609308	1565757	877.2	2.8	18.9	4.8	0.1	5.5	0.0	2.7	0.4904746	74.5	2.0	82.6	4.4	321.7	109.0	76.8
Spot 183	3631692	3533412	189779.9	2.4	11.2	0.8	2.9	1.6	0.2	1.4	0.8582781	1378.3	16.9	1390.5	12.0	1409.3	15.6	2.2
Spot 184	577997	562355	3836.2	4.8	12.1	1.2	2.1	4.8	0.2	4.6	0.969165	1075.4	45.8	1137.6	32.6	1258.4	22.9	14.5
Spot 185	1541748	1500025	23619.8	1.7	15.1	1.5	1.2	1.9	0.1	1.2	0.6141254	790.9	8.8	796.2	10.6	811.0	31.8	2.5
Spot 186	1008821	981520	25621.9	3.2	12.4	1.1	2.2	1.8	0.2	1.4	0.7694909	1163.4	14.5	1182.5	12.4	1217.5	22.3	4.4
Spot 187	1053596	1025083	8755.9	3.5	14.0	1.2	1.6	1.7	0.2	1.2	0.7273151	972.1	11.0	971.5	10.5	970.0	23.5	-0.2
Spot 188	1022818	995139	2424.2	1.7	22.1	2.7	0.3	3.1	0.0	1.5	0.4723381	277.0	4.0	245.7	6.8	NA	NA	
Spot 189	3923725	3817541	5673.5	3.3	20.1	1.3	0.2	1.6	0.0	1.1	0.6486337	225.3	2.4	221.4	3.3	180.7	29.1	-24.7
Spot 19	2419267	2353798	11237.7	1.2	19.1	1.9	0.3	3.1	0.0	2.4	0.7814481	276.0	6.5	278.8	7.5	302.8	43.6	8.9
Spot 190	1452086	1412790	8863.1	1.2	19.5	4.3	0.1	4.6	0.0	1.7	0.3774173	57.4	1.0	62.2	2.8	251.5	98.3	77.2
Spot 191	1595806	1552620	2989.5	16.7	21.7	2.1	0.2	2.8	0.0	1.9	0.6711452	236.6	4.4	216.4	5.5	1.4	NA	#####
Spot 192	1284328	1249572	2693.4	2.4	21.0	2.4	0.3	3.1	0.0	2.0	0.6456296	270.3	5.3	251.1	7.0	75.2	56.8	-259.2

Spot 193	1418082	1379706	1531.5	1.9	20.2	11.6	0.1	11.9	0.0	2.7	0.2239134	68.9	1.8	71.9	8.3	171.9	NA	59.9
Spot 194	4029117	3920082	34891.5	11.3	12.1	1.1	2.0	2.0	0.2	1.6	0.8208796	1034.4	15.7	1106.9	13.5	1252.5	22.4	17.4
Spot 195	3575928	3479157	12118.5	1.2	20.3	1.7	0.2	2.4	0.0	1.7	0.7012034	226.9	3.7	220.9	4.7	157.8	39.6	-43.8
Spot 196	3383079	3291527	47743.4	1.3	18.7	2.2	0.3	3.3	0.0	2.5	0.7421937	272.9	6.6	280.7	8.1	346.2	50.3	21.2
Spot 197	1067588	1038698	540782.4	2.0	13.3	1.2	1.8	2.0	0.2	1.6	0.8090962	1012.4	15.1	1030.0	12.9	1067.7	23.6	5.2
Spot 198	1213191	1180359	33057.8	2.0	17.7	1.9	0.3	2.2	0.0	1.2	0.5306615	274.3	3.2	295.5	5.7	467.0	41.6	41.3
Spot 20	3523834	3428473	14269.3	10.7	19.1	1.9	0.3	2.6	0.0	1.8	0.6936717	252.4	4.4	256.9	5.9	298.6	42.4	15.5
Spot 200	2001726	1947556	8616.4	2.3	17.5	3.6	0.3	4.0	0.0	1.7	0.4224318	271.6	4.5	295.9	10.2	492.9	79.5	44.9
Spot 201	1253403	1219484	12322.2	1.1	12.9	0.8	2.0	1.4	0.2	1.1	0.8124001	1126.3	11.5	1126.8	9.3	1127.8	15.9	0.1
Spot 202	1324631	1288784	14249.7	2.4	13.1	1.1	1.7	1.7	0.2	1.3	0.7830902	979.9	12.1	1017.9	10.9	1100.5	21.1	11.0
Spot 203	510324	496514	5768.9	1.9	14.5	2.3	1.4	2.5	0.1	1.1	0.4268764	873.9	8.8	880.6	14.8	897.4	47.0	2.6
Spot 205	407491	396464	404109.1	5.8	11.9	1.9	2.2	3.7	0.2	3.2	0.8642334	1143.1	33.3	1195.3	25.9	1290.8	36.0	11.4
Spot 206	607801	591353	22106.4	2.6	13.6	1.1	1.6	1.5	0.2	1.1	0.6965653	925.2	9.1	958.2	9.4	1034.6	22.0	10.6
Spot 207	933450	908189	1940.7	1.2	20.9	2.6	0.3	2.9	0.0	1.3	0.4450693	272.9	3.4	255.0	6.5	92.9	60.9	-193.8
Spot 209	2717807	2644258	74302.2	4.2	11.5	0.9	2.7	1.7	0.2	1.4	0.8416187	1324.8	17.3	1336.1	12.8	1354.3	17.9	2.2
Spot 21	3903700	3798059	20351.7	0.8	21.4	1.2	0.2	2.1	0.0	1.6	0.7977844	191.7	3.1	180.5	3.4	35.6	29.8	-437.8
Spot 210	2984476	2903711	9439.6	10.6	19.4	1.2	0.3	1.7	0.0	1.2	0.7246843	279.5	3.4	277.7	4.1	262.7	27.0	-6.4
Spot 211	443707	431699	33694.5	3.8	14.1	1.4	1.5	1.8	0.1	1.2	0.6378264	900.2	9.8	915.6	11.1	952.8	28.9	5.5
Spot 212	2419384	2353911	5649.0	1.7	20.3	1.5	0.3	2.2	0.0	1.6	0.7141867	287.0	4.4	273.3	5.3	157.7	36.0	-82.0
Spot 214	858309	835082	5883.2	4.6	14.6	1.2	1.4	1.7	0.1	1.3	0.7204351	898.7	10.5	895.0	10.3	885.8	24.9	-1.5
Spot 215	861258	837950	2134.5	2.5	20.5	4.4	0.2	5.3	0.0	3.0	0.568173	179.9	5.3	177.2	8.6	140.6	102.5	-28.0
Spot 217	711063	691821	1461.1	5.6	23.6	8.7	0.1	9.5	0.0	3.7	0.3928203	100.5	3.7	89.0	8.1	NA	NA	
Spot 218	5710446	5555911	106077.9	27.7	12.4	0.9	2.2	1.7	0.2	1.4	0.8468915	1173.0	15.4	1187.5	11.9	1214.1	17.8	3.4
Spot 22	490074	476812	30066.0	1.1	11.1	2.1	3.1	3.6	0.2	3.0	0.8211351	1435.4	38.5	1434.2	28.0	1432.3	39.6	-0.2
Spot 221	288419	280614	876.6	2.4	21.1	9.2	0.3	10.3	0.0	4.6	0.4509762	251.9	11.4	234.7	21.5	66.5	NA	-278.8
Spot 222	4407184	4287918	22464.0	2.1	18.9	1.0	0.3	1.6	0.0	1.2	0.7686923	283.6	3.4	287.4	3.9	318.7	22.9	11.0
Spot 223	2379814	2315412	58690.0	3.6	9.7	0.9	4.2	1.7	0.3	1.4	0.820411	1649.7	19.7	1666.8	13.5	1688.5	17.4	2.3
Spot 224	6770556	6587333	159471.7	1.1	19.2	0.9	0.3	1.7	0.0	1.4	0.8378552	290.5	4.0	289.7	4.2	283.4	20.9	-2.5
Spot 225	362930	353109	3818.1	3.7	13.7	1.8	1.8	2.6	0.2	1.9	0.7233	1054.3	18.1	1041.0	16.7	1013.2	36.0	-4.1
Spot 226	1256305	1222307	2462.8	2.8	22.5	2.3	0.2	3.8	0.0	3.0	0.7887867	162.0	4.8	146.8	5.2	NA	NA	
Spot 227	806882	785046	27982.4	2.6	20.5	1.9	0.4	3.2	0.1	2.5	0.7936519	361.4	8.8	333.2	9.0	140.9	45.3	-156.6
Spot 228	1469677	1429905	54746.3	2.3	12.6	1.1	2.1	1.6	0.2	1.2	0.7591505	1149.3	13.1	1162.5	11.4	1187.1	21.1	3.2
Spot 229	953701	927892	24393.5	2.1	11.3	1.1	2.9	2.3	0.2	2.0	0.8659778	1357.2	23.9	1369.2	17.0	1388.1	21.7	2.2
Spot 231	3169272	3083505	30421.4	3.1	10.7	0.7	3.1	1.2	0.2	1.0	0.8273956	1382.6	11.9	1425.5	8.9	1490.0	12.3	7.2
Spot 232	1046553	1018231	9876.1	1.6	12.5	1.5	2.0	3.1	0.2	2.7	0.8697172	1081.0	26.9	1121.8	21.1	1201.7	30.3	10.0
Spot 234	2220350	2160263	8367.4	1.7	19.7	1.7	0.3	2.6	0.0	2.0	0.7616329	274.4	5.4	270.1	6.3	232.9	39.5	-17.8
Spot 235	1343746	1307382	32305.3	1.6	13.7	1.2	1.8	2.0	0.2	1.7	0.8230527	1042.9	16.1	1035.5	13.2	1019.8	23.4	-2.3
Spot 236	906510	881979	67443.4	4.8	13.7	1.2	1.6	2.6	0.2	2.3	0.8835009	927.2	20.0	952.3	16.2	1010.9	24.9	8.3
Spot 237	770764	749906	48028.4	1.9	16.0	3.1	0.7	3.4	0.1	1.4	0.4085068	483.0	6.4	519.6	13.8	683.9	66.0	29.4
Spot 238	1342162	1305841	6485.8	2.0	17.1	1.0	0.7	2.4	0.1	2.1	0.9067628	566.1	11.6	562.5	10.2	547.8	21.7	-3.3
Spot 239	2340808	2277462	122093.4	1.3	19.3	1.1	0.3	1.9	0.0	1.6	0.8213586	225.6	3.5	230.2	4.0	277.7	25.1	18.8
Spot 24	809975	788056	6800.0	2.8	13.0	1.2	2.0	2.3	0.2	2.0	0.8601445	1103.8	20.1	1107.6	15.6	1115.1	23.5	1.0
Spot 240	1796428	1747813	49729.5	5.7	12.9	1.1	2.1	1.5	0.2	1.0	0.7017595	1133.7	10.8	1133.2	10.1	1132.0	20.9	-0.1

Spot 242	869025	845508	9564.8	3.3	13.4	1.5	1.6	3.9	0.2	3.6	0.9248601	915.9	30.9	960.0	24.3	1062.5	29.9	13.8
Spot 243	4255164	4140011	3223.2	3.4	21.6	3.9	0.1	4.2	0.0	1.7	0.4015656	68.1	1.2	66.5	2.7	7.1	NA	-855.5
Spot 244	2256766	2195694	8046.3	1.2	20.4	2.1	0.2	2.4	0.0	1.2	0.4970963	180.4	2.1	178.5	3.9	152.6	48.9	-18.3
Spot 245	1358975	1322199	96226.6	1.6	11.1	1.3	2.9	2.2	0.2	1.7	0.788887	1362.4	21.1	1385.1	16.5	1420.2	25.6	4.1
Spot 246	3292235	3203141	33476.0	1.5	19.1	1.0	0.3	1.5	0.0	1.1	0.7237105	284.7	3.1	285.9	3.8	295.2	23.9	3.5
Spot 247	827710	805311	2334.5	2.4	19.5	3.7	0.3	4.1	0.0	1.6	0.3934404	266.7	4.2	264.8	9.5	247.6	85.9	-7.7
Spot 248	5817778	5660338	44417.8	12.3	13.4	0.8	1.7	1.4	0.2	1.2	0.8084245	1004.0	10.7	1020.6	9.2	1056.5	16.9	5.0
Spot 249	2773153	2698106	46523.6	1.1	19.6	2.0	0.2	2.6	0.0	1.8	0.6618393	165.6	2.9	170.3	4.1	235.8	45.8	29.8
Spot 25	1648423	1603814	5060.3	2.3	19.2	1.7	0.5	2.2	0.1	1.3	0.6077101	454.3	5.8	427.1	7.5	283.3	39.3	-60.4
Spot 250	3850031	3745842	1884.1	4.3	22.7	3.5	0.1	4.1	0.0	2.1	0.5256768	71.3	1.5	66.4	2.6	NA	NA	
Spot 251	1376149	1338908	18860.2	3.6	16.3	2.1	0.8	2.6	0.1	1.6	0.6059705	614.0	9.2	622.3	12.1	652.6	44.4	5.9
Spot 252	2938220	2858706	29588.9	4.1	13.9	0.9	1.4	1.7	0.1	1.5	0.8403881	866.0	11.9	901.5	10.4	989.7	19.2	12.5
Spot 253	540271	525650	2980.8	1.6	20.2	4.6	0.2	5.4	0.0	2.7	0.508702	200.9	5.4	198.2	9.7	165.5	108.6	-21.4
Spot 254	837738	815067	22574.4	2.5	14.3	1.1	1.5	1.7	0.2	1.3	0.7573445	904.1	11.1	911.9	10.5	930.8	23.4	2.9
Spot 255	1240936	1207354	3357.3	0.9	20.3	1.8	0.3	2.5	0.0	1.7	0.6806065	285.6	4.8	272.4	6.0	160.1	42.8	-78.5
Spot 256	3958035	3850924	24806.7	1.8	13.9	0.9	1.5	1.8	0.2	1.6	0.8746562	910.6	13.2	931.3	10.9	980.9	17.6	7.2
Spot 257	827324	804935	794.4	3.6	34.6	2.5	0.2	3.1	0.0	1.8	0.5938545	277.8	5.0	164.1	4.7	NA	NA	
Spot 259	2153472	2095195	89897.1	2.0	16.3	1.0	0.9	1.8	0.1	1.5	0.8419823	639.0	9.2	641.6	8.5	650.6	20.8	1.8
Spot 26	1593989	1550853	18327.8	4.0	12.7	1.0	2.2	1.6	0.2	1.2	0.7879889	1206.0	13.5	1189.2	10.9	1158.9	19.0	-4.1
Spot 260	1390978	1353335	31060.7	1.4	14.3	1.2	1.5	1.9	0.2	1.4	0.7479882	906.4	11.8	912.5	11.2	927.6	25.4	2.3
Spot 262	2060887	2005116	197301.9	3.2	10.7	0.7	3.4	1.6	0.3	1.4	0.8886382	1494.5	19.1	1497.0	12.6	1500.6	14.0	0.4
Spot 263	1544379	1502585	19997.0	1.7	14.4	1.2	1.5	2.1	0.2	1.7	0.8275565	928.0	14.9	924.3	12.7	915.7	24.2	-1.3
Spot 265	1354060	1317417	7373.6	3.8	14.4	1.5	1.4	2.1	0.1	1.5	0.6940429	882.4	12.1	891.8	12.6	915.0	31.4	3.6
Spot 266	3052460	2969855	22826.2	1.2	19.6	1.1	0.3	1.7	0.0	1.4	0.7895133	265.6	3.6	263.6	4.0	245.8	24.4	-8.1
Spot 267	1789388	1740964	21837.1	1.7	19.1	1.4	0.3	1.9	0.0	1.3	0.6764066	263.3	3.2	267.3	4.4	302.6	31.1	13.0
Spot 268	2179299	2120323	16416.9	1.6	19.9	1.6	0.2	1.9	0.0	1.0	0.5530991	222.9	2.3	221.2	3.7	203.0	36.5	-9.8
Spot 269	1541871	1500145	6578.9	1.5	19.9	2.4	0.3	2.6	0.0	1.1	0.4158393	239.3	2.5	236.7	5.5	211.1	55.0	-13.4
Spot 27	791872	770443	314714.7	2.1	12.6	1.4	2.1	2.0	0.2	1.4	0.7132069	1144.4	14.9	1158.0	13.8	1183.6	27.7	3.3
Spot 270	3104836	3020813	10215.5	9.0	15.5	1.4	0.6	2.1	0.1	1.6	0.7708488	422.2	6.7	477.4	8.1	751.8	28.7	43.8
Spot 273	979673	953161	100649.3	5.3	11.4	0.9	2.9	1.4	0.2	1.1	0.7800432	1393.8	13.3	1384.9	10.3	1371.2	16.4	-1.6
Spot 276	3503171	3408369	1023942.4	1.1	20.2	1.4	0.3	2.9	0.0	2.5	0.8705269	276.7	6.8	265.8	6.7	170.9	32.9	-62.0
Spot 277	855133	831992	16029.5	3.0	14.5	0.8	1.5	2.2	0.2	2.0	0.92583	919.9	17.3	913.7	13.2	898.7	17.0	-2.4
Spot 278	357507	347832	5105.6	1.2	13.2	2.0	1.9	2.6	0.2	1.6	0.6275237	1085.9	16.1	1088.3	17.1	1093.0	39.9	0.6
Spot 279	3727822	3626940	35771.2	9.0	17.2	0.9	0.6	1.5	0.1	1.2	0.805266	491.7	5.5	500.0	5.7	538.5	18.9	8.7
Spot 28	4652902	4526986	102141.1	6.2	13.8	0.7	1.5	1.4	0.2	1.2	0.8604	928.5	10.0	949.3	8.3	998.0	14.0	7.0
Spot 280	693259	674498	68424.9	5.6	12.4	1.3	2.3	2.0	0.2	1.5	0.7399362	1227.7	16.5	1220.8	14.2	1208.7	26.5	-1.6
Spot 281	988403	961655	2270.6	1.7	20.3	3.0	0.3	3.8	0.0	2.4	0.6161147	240.8	5.6	233.6	8.0	160.9	70.4	-49.7
Spot 282	2728588	2654747	7377.0	1.1	19.6	1.9	0.3	2.3	0.0	1.3	0.5650747	281.1	3.5	277.4	5.5	246.2	43.3	-14.2
Spot 283	1255338	1221366	10091.7	4.3	14.4	1.2	1.5	1.9	0.2	1.4	0.7499589	914.3	12.1	911.7	11.4	905.4	25.7	-1.0
Spot 284	1856400	1806162	88276.2	1.5	18.7	2.6	0.3	3.2	0.0	1.8	0.5674827	294.7	5.2	301.1	8.3	350.8	59.2	16.0
Spot 285	3104099	3020096	12340.3	1.8	19.6	1.5	0.3	2.4	0.0	1.8	0.756006	284.1	4.9	279.7	5.7	243.5	35.4	-16.7
Spot 286	2746247	2671928	8800.7	3.8	19.5	1.9	0.3	2.3	0.0	1.4	0.6032418	237.2	3.3	238.4	5.0	249.4	43.0	4.9
Spot 287	2336238	2273015	44894.7	1.4	19.7	2.0	0.3	4.1	0.0	3.6	0.8723552	293.5	10.4	286.6	10.3	230.8	46.8	-27.2

Spot 289	2607069	2536517	201411.7	2.2	9.9	0.8	3.6	1.3	0.3	1.0	0.7527313	1492.7	12.7	1555.3	10.1	1641.3	15.5	9.1
Spot 29	2007198	1952879	14276.6	1.8	19.5	1.4	0.3	2.4	0.0	2.0	0.811473	279.1	5.4	276.5	5.9	255.0	32.7	-9.4
Spot 291	967139	940967	14735.6	2.7	13.3	1.2	1.9	1.9	0.2	1.4	0.7592807	1071.6	14.1	1072.2	12.5	1073.4	24.6	0.2
Spot 292	1563953	1521630	17546.6	3.0	13.6	1.0	1.8	1.7	0.2	1.4	0.8073294	1042.3	13.3	1037.3	11.1	1026.7	20.4	-1.5
Spot 293	484288	471182	12213.1	1.1	12.8	1.8	2.0	2.4	0.2	1.6	0.6537667	1094.2	16.0	1110.4	16.5	1142.2	36.7	4.2
Spot 294	4939693	4806016	69289.0	1.9	19.7	1.4	0.3	2.0	0.0	1.5	0.7427585	285.6	4.2	279.8	5.0	231.6	31.6	-23.3
Spot 295	2359595	2295740	245335.6	2.4	15.2	2.3	1.0	4.5	0.1	3.9	0.8626113	703.5	26.1	728.3	23.6	805.4	48.1	12.7
Spot 296	1223953	1190831	18764.0	5.5	11.6	1.6	2.8	1.9	0.2	1.2	0.5948574	1372.2	14.2	1357.9	14.5	1335.6	30.1	-2.7
Spot 297	911300	886639	5987.0	2.1	12.7	2.0	2.1	2.8	0.2	2.0	0.7050113	1140.7	21.0	1147.6	19.5	1160.6	40.0	1.7
Spot 298	2054077	1998489	38795.6	3.2	12.8	0.6	2.1	1.7	0.2	1.6	0.9257558	1144.8	16.4	1148.1	11.6	1154.3	12.7	0.8
Spot 299	2726547	2652762	4767.4	1.1	20.5	1.4	0.3	1.9	0.0	1.3	0.6968263	273.6	3.6	260.2	4.4	141.5	32.1	-93.4
Spot 3	1615635	1571913	15421.5	3.4	12.6	1.2	2.2	1.6	0.2	1.2	0.7063246	1204.2	12.7	1195.2	11.5	1178.9	22.8	-2.1
Spot 30	2259025	2197892	18971.4	3.7	12.7	0.8	2.2	1.7	0.2	1.5	0.8757086	1198.4	16.0	1184.7	11.7	1159.6	16.0	-3.3
Spot 301	2861065	2783640	29764.6	40.8	13.2	1.6	1.9	2.8	0.2	2.3	0.8278695	1095.0	23.4	1091.4	18.7	1084.1	31.5	-1.0
Spot 302	2258010	2196904	11042.4	1.3	18.7	2.5	0.3	2.8	0.0	1.3	0.4533186	286.2	3.6	292.6	7.1	343.5	56.7	16.7
Spot 303	814721	792673	7997.9	1.5	18.1	1.9	0.6	2.9	0.1	2.1	0.7486512	462.9	9.5	455.0	10.5	415.3	42.3	-11.5
Spot 304	3384736	3293139	9611.0	15.1	12.2	1.7	0.7	2.6	0.1	1.9	0.7490169	392.4	7.4	544.1	10.9	1243.7	33.5	68.4
Spot 305	1130666	1100069	20083.5	1.5	18.8	2.1	0.3	2.6	0.0	1.6	0.6081622	278.4	4.4	285.2	6.6	341.4	47.5	18.5
Spot 306	3576756	3479963	18949.9	10.5	16.7	1.2	0.7	2.5	0.1	2.2	0.8866663	494.8	10.6	514.5	10.1	603.1	25.1	18.0
Spot 308	537834	523280	10900.7	1.9	13.6	1.0	1.7	1.9	0.2	1.6	0.8440627	976.6	14.8	994.0	12.2	1032.6	21.0	5.4
Spot 309	1992828	1938898	8002.9	4.0	19.4	2.3	0.3	2.8	0.0	1.7	0.5960558	285.9	4.7	283.1	7.0	260.2	52.1	-9.9
Spot 31	1338077	1301866	114110.6	0.6	11.9	0.8	2.6	1.6	0.2	1.4	0.8608486	1315.4	16.3	1307.1	11.7	1293.5	15.8	-1.7
Spot 310	1300950	1265744	5196.0	1.3	19.2	4.2	0.2	5.2	0.0	3.1	0.5909747	184.7	5.6	192.6	9.1	290.9	95.4	36.5
Spot 311	3394472	3302612	18808.1	1.4	17.4	1.7	0.6	2.3	0.1	1.5	0.6733492	465.0	6.8	471.6	8.5	503.8	36.8	7.7
Spot 313	754511	734092	3139.5	2.3	21.5	4.5	0.3	5.3	0.0	2.8	0.5225574	276.6	7.5	251.7	11.9	25.0	NA	-1007.0
Spot 314	472335	459552	12989.2	3.4	14.6	1.4	1.4	2.1	0.2	1.6	0.7472688	905.7	13.2	897.3	12.4	876.5	28.7	-3.3
Spot 315	646873	629367	6656.9	1.6	12.8	2.2	2.1	3.0	0.2	2.0	0.6779505	1151.2	21.5	1151.3	20.7	1151.5	44.0	0.0
Spot 32	789340	767979	20654.6	1.8	12.1	1.0	2.5	1.8	0.2	1.5	0.8374612	1292.7	17.6	1279.7	13.1	1257.9	19.2	-2.8
Spot 33	6855087	6669576	13277.5	0.8	21.5	1.8	0.1	2.7	0.0	2.0	0.7520436	56.2	1.1	55.5	1.4	27.5	NA	-104.4
Spot 34	329399	320484	1046.1	1.5	20.6	16.0	0.2	16.3	0.0	3.2	0.1960289	177.1	5.6	173.6	26.0	126.6	NA	-39.9
Spot 35	2091075	2034487	4927.5	1.7	20.3	3.4	0.2	5.0	0.0	3.6	0.7297658	171.5	6.2	170.8	7.8	160.9	79.8	-6.6
Spot 36	8254365	8030986	78593.3	26.5	13.9	0.7	1.4	1.4	0.1	1.1	0.8431063	878.5	9.4	907.5	8.1	978.6	14.8	10.2
Spot 37	227601	221442	8704.5	1.7	16.2	4.2	0.7	5.9	0.1	4.2	0.7070747	508.5	20.5	537.8	24.8	664.1	90.0	23.4
Spot 38	837979	815302	9235.0	2.9	14.5	2.5	1.5	4.5	0.2	3.7	0.8349083	931.8	32.5	920.7	27.2	894.2	51.0	-4.2
Spot 39	485160	472030	12673.5	2.5	12.5	1.9	2.2	2.4	0.2	1.5	0.6308697	1168.6	16.2	1180.6	16.7	1202.5	36.7	2.8
Spot 4	5288345	5145233	7571.4	14.5	20.3	1.6	0.2	2.2	0.0	1.5	0.6949774	230.8	3.5	224.6	4.4	160.1	37.0	-44.2
Spot 40	874795	851121	22704.2	2.2	12.9	1.2	2.0	2.0	0.2	1.6	0.7863719	1100.9	15.8	1113.4	13.5	1137.9	24.4	3.3
Spot 41	757945	737434	9745.4	2.6	12.3	2.2	2.2	2.7	0.2	1.6	0.5876191	1144.7	16.5	1174.7	18.7	1230.4	42.6	7.0
Spot 42	814964	792909	26292.9	2.1	18.8	3.0	0.3	4.4	0.0	3.2	0.7235943	286.3	8.8	291.3	11.0	331.4	68.2	13.6
Spot 43	791852	770423	34600.8	1.7	12.3	1.2	2.3	1.9	0.2	1.5	0.7733722	1208.0	16.3	1212.4	13.6	1220.3	23.9	1.0
Spot 44	2429509	2363762	40829.6	17.1	19.0	1.8	0.3	2.5	0.0	1.7	0.6764602	257.4	4.2	262.5	5.7	309.0	41.3	16.7
Spot 46	1119282	1088992	23056.3	1.6	17.8	3.4	0.3	3.7	0.0	1.5	0.4038843	253.7	3.7	274.8	9.0	458.6	75.7	44.7
Spot 47	322450	313724	18580.7	1.1	12.5	2.3	1.9	4.8	0.2	4.2	0.8811855	1035.4	40.6	1090.4	32.2	1202.0	44.9	13.9

Spot 48	502868	489260	3911.4	1.8	16.9	6.2	0.2	7.5	0.0	4.3	0.5687789	173.7	7.3	204.3	13.9	573.1	134.5	69.7
Spot 49	1380922	1343552	1406.3	3.6	25.3	4.6	0.1	5.0	0.0	2.1	0.4210005	99.3	2.1	82.3	4.0	NA	NA	
Spot 5	343091	333807	8060.9	2.2	12.5	1.8	2.2	2.9	0.2	2.3	0.7946621	1155.0	24.7	1170.5	20.4	1199.3	35.2	3.7
Spot 50	401161	390305	3606.4	1.2	18.0	5.9	0.2	7.1	0.0	3.9	0.5516819	199.4	7.6	218.4	13.9	428.7	131.2	53.5
Spot 52	1431139	1392410	9028.7	2.0	13.8	1.1	1.7	1.7	0.2	1.3	0.7757011	1041.6	12.8	1026.0	11.1	993.0	22.0	-4.9
Spot 53	1252794	1218891	38862.5	0.9	8.2	0.8	6.2	1.3	0.4	1.0	0.8025975	2023.7	18.0	2000.1	11.3	1975.7	13.7	-2.4
Spot 54	452424	440180	2375.5	0.8	19.8	5.9	0.2	7.4	0.0	4.4	0.6005617	191.1	8.4	192.9	13.0	215.2	137.2	11.2
Spot 55	796394	774842	18644.9	2.6	14.2	0.8	1.5	1.5	0.2	1.2	0.8291333	927.6	10.7	931.8	9.1	941.8	17.2	1.5
Spot 56	842640	819837	8722.4	2.6	19.0	3.1	0.4	6.1	0.1	5.2	0.8578907	317.2	16.1	316.5	16.5	311.2	70.8	-1.9
Spot 57	1971093	1917751	3403.7	1.6	21.4	1.7	0.3	2.2	0.0	1.4	0.6316073	298.2	4.1	270.7	5.3	38.5	NA	-674.3
Spot 58	3763833	3661977	254702.2	2.0	16.5	1.3	0.7	1.9	0.1	1.5	0.7632555	548.5	7.8	562.7	8.4	620.4	27.1	11.6
Spot 59	527199	512932	10549.8	1.7	16.5	2.9	0.7	4.7	0.1	3.7	0.7857054	484.3	17.2	509.3	18.8	623.3	62.7	22.3
Spot 6	2255061	2194035	25666.6	1.9	18.7	2.1	0.3	2.6	0.0	1.5	0.5610969	280.1	4.0	287.6	6.5	349.4	48.4	19.8
Spot 61	1160502	1129097	2109.3	1.1	20.8	2.9	0.3	4.3	0.0	3.1	0.7258612	240.8	7.3	228.4	8.7	102.1	69.3	-136.0
Spot 62	3240664	3152966	840362.6	19.5	11.4	0.9	2.8	1.6	0.2	1.3	0.8434339	1335.0	16.1	1347.5	11.8	1367.3	16.4	2.4
Spot 64	975425	949028	295339.5	2.6	14.5	1.2	1.4	3.2	0.1	2.9	0.9272302	890.1	24.5	892.0	18.9	896.4	24.6	0.7
Spot 65	1039331	1011205	1601.3	1.7	21.9	3.4	0.3	3.8	0.0	1.7	0.4542837	285.9	4.8	255.3	8.5	NA	NA	
Spot 66	5839601	5681571	5205.7	1.5	21.4	1.5	0.2	2.1	0.0	1.5	0.7166822	166.4	2.5	158.2	3.1	37.0	35.7	-349.6
Spot 67	376239	366057	9128.3	4.7	12.5	2.1	1.8	6.1	0.2	5.7	0.9372974	1000.0	52.6	1061.2	39.9	1189.2	41.7	15.9
Spot 68	1791288	1742813	31345.1	4.5	19.3	1.7	0.3	2.9	0.0	2.3	0.8058171	234.7	5.3	238.7	6.1	278.1	38.7	15.6
Spot 69	1254587	1220636	894.9	2.0	29.0	4.0	0.1	5.0	0.0	3.0	0.6092438	179.4	5.4	128.0	6.0	NA	NA	
Spot 7	8696679	8461331	26003.2	1.2	19.1	1.0	0.3	1.6	0.0	1.2	0.7858618	274.6	3.4	276.8	3.9	295.3	22.4	7.0
Spot 70	379262	368998	1508.5	0.8	22.7	7.8	0.2	9.0	0.0	4.6	0.5045958	180.7	8.1	162.0	13.5	NA	NA	
Spot 71	2418268	2352825	34810.7	4.8	19.1	2.5	0.3	3.0	0.0	1.8	0.5897311	246.3	4.3	250.9	6.8	294.3	56.1	16.3
Spot 72	1225923	1192748	25066.4	2.2	12.6	0.9	2.2	1.7	0.2	1.4	0.8458924	1177.6	15.4	1177.1	11.8	1176.1	17.9	-0.1
Spot 73	1034916	1006910	14805.2	2.4	18.6	4.3	0.2	5.4	0.0	3.2	0.5983937	131.4	4.2	144.3	7.2	361.8	97.4	63.7
Spot 74	511965	498110	2937.7	1.6	17.1	4.0	0.4	4.5	0.1	2.0	0.4428129	315.5	6.1	344.4	13.0	544.1	87.5	42.0
Spot 75	2203996	2144352	19910.6	2.3	12.3	0.6	2.5	1.5	0.2	1.4	0.9243157	1287.1	16.6	1265.9	11.2	1230.2	11.5	-4.6
Spot 76	2401079	2336101	11877.5	1.8	18.8	2.7	0.3	3.1	0.0	1.4	0.4695961	243.6	3.4	252.1	6.8	332.1	61.4	26.6
Spot 77	1824500	1775125	12266.7	1.2	17.7	1.5	0.6	2.2	0.1	1.6	0.7190488	475.5	7.2	474.4	8.3	469.3	33.8	-1.3
Spot 79	4058349	3948522	7473.4	18.3	20.8	1.4	0.2	1.9	0.0	1.4	0.7107685	237.4	3.2	225.7	3.9	105.2	32.1	-125.6
Spot 8	637877	620615	9800.7	2.0	13.5	2.7	1.6	3.2	0.2	1.7	0.5350175	961.2	15.3	987.9	20.2	1048.0	54.4	8.3
Spot 80	679316	660932	1461.9	1.8	22.9	4.3	0.3	6.9	0.0	5.4	0.7819407	279.4	14.8	240.2	14.8	NA	NA	
Spot 82	1015894	988403	9145.1	2.0	14.0	1.3	1.6	1.8	0.2	1.3	0.7235543	944.6	11.6	954.0	11.3	975.7	25.7	3.2
Spot 83	1202656	1170110	172626.1	2.4	12.7	1.0	2.2	1.8	0.2	1.4	0.8038437	1173.7	15.1	1169.0	12.2	1160.1	20.7	-1.2
Spot 84	2114144	2056932	10198.9	2.3	19.9	1.7	0.3	2.3	0.0	1.5	0.6594862	286.6	4.2	278.3	5.5	209.6	39.6	-36.7
Spot 85	372872	362781	3786.7	2.8	14.7	2.2	1.3	2.8	0.1	1.8	0.6409285	863.6	14.8	866.6	16.6	874.2	45.3	1.2
Spot 86	816859	794754	4378.6	1.8	21.0	4.4	0.2	4.8	0.0	2.0	0.4170713	210.7	4.1	199.9	8.7	74.2	NA	-183.9
Spot 88	2574211	2504548	205600.9	2.4	10.8	1.2	3.0	1.9	0.2	1.5	0.7896748	1385.9	18.8	1419.8	14.6	1470.9	22.2	5.8
Spot 89	897447	873161	6101.6	1.8	20.2	2.6	0.3	3.2	0.0	1.9	0.6000296	290.1	5.5	277.7	7.9	174.9	60.6	-65.8
Spot 9	831987	809472	33834.3	3.5	12.8	0.9	2.0	2.4	0.2	2.3	0.9321492	1124.0	23.4	1132.1	16.6	1147.7	17.5	2.1
Spot 90	945377	919793	22954.4	1.1	12.0	1.0	2.5	1.8	0.2	1.5	0.8441037	1271.3	17.6	1270.8	13.1	1269.8	18.9	-0.1
Spot 91	214830	209016	4267.8	1.8	13.3	1.8	1.9	2.3	0.2	1.5	0.6411082	1099.6	15.2	1090.2	15.7	1071.5	36.2	-2.6

Spot 92	702972	683948	27218.3	2.4	14.5	2.1	1.5	3.2	0.2	2.4	0.7550511	936.7	20.8	925.6	19.2	899.4	42.8	-4.1
Spot 93	714930	695582	8475.2	1.6	12.4	1.5	2.2	2.2	0.2	1.6	0.7382121	1189.3	17.7	1196.7	15.5	1210.2	29.2	1.7
Spot 95	2966522	2886242	14663.4	5.7	16.6	2.2	0.5	2.5	0.1	1.3	0.5084743	396.1	4.9	429.4	8.8	612.3	46.5	35.3
Spot 96	1954626	1901731	13091.4	4.3	19.7	1.9	0.3	2.5	0.0	1.7	0.6710478	244.4	4.1	242.7	5.4	226.0	43.2	-8.1
Spot 97	3491048	3396574	22606.2	3.9	13.8	1.5	1.6	2.4	0.2	1.9	0.7876913	970.8	17.4	980.1	15.4	1000.9	30.6	3.0
Spot 98	2809726	2733690	6230.7	1.9	19.3	2.1	0.3	2.9	0.0	2.0	0.6812623	278.3	5.4	277.9	7.0	274.4	48.5	-1.4
Run 1 (discordant)																		
Spot 106	1511094	1470201	46892.0	2.9	11.9	1.0	2.8	1.8	0.2	1.5	0.8383974	1385.9	18.8	1352.0	13.5	1298.8	19.1	-6.7
Spot 107	985481	958812	7042.9	2.2	14.7	1.3	1.5	1.8	0.2	1.2	0.6601156	936.2	10.2	916.6	10.7	869.7	27.7	-7.6
Spot 109	1554732	1512658	96607.2	1.7	8.7	1.5	3.9	2.6	0.2	2.2	0.8225148	1430.0	27.8	1620.4	21.3	1877.3	27.0	23.8
Spot 11	2189541	2130288	11804.5	4.0	14.3	0.8	1.6	1.7	0.2	1.5	0.8780885	1007.5	14.2	980.1	10.9	919.4	17.0	-9.6
Spot 110	1285921	1251122	21617.7	1.1	13.7	1.3	1.8	1.8	0.2	1.3	0.7287204	1078.5	13.4	1055.0	12.1	1006.6	25.6	-7.1
Spot 111	439357	427467	126881.5	2.1	13.2	3.2	2.3	4.3	0.2	2.8	0.6525495	1262.1	31.9	1198.6	30.0	1086.0	64.8	-16.2
Spot 112	432680	420971	2072.4	3.9	16.1	1.6	1.2	2.6	0.1	2.1	0.7992152	874.9	17.1	822.0	14.7	681.5	33.5	-28.4
Spot 115	219672	213728	12871.4	2.6	10.7	3.4	2.5	4.7	0.2	3.4	0.7074638	1149.7	35.3	1273.9	34.4	1490.0	63.5	22.8
Spot 117	710467	691241	3252.6	1.2	18.6	5.0	0.3	10.6	0.0	9.3	0.8824936	220.3	20.2	232.3	22.0	355.3	112.4	38.0
Spot 119	109893	106919	991.2	3.7	15.8	5.7	1.4	7.0	0.2	4.1	0.5852841	935.1	35.6	873.4	41.0	720.2	120.5	-29.8
Spot 127	369605	359603	7235.5	0.8	15.0	1.4	1.3	1.9	0.1	1.3	0.6702897	881.7	10.3	864.3	10.9	819.7	29.0	-7.6
Spot 14	863520	840151	7160.4	2.9	10.4	4.0	2.0	4.3	0.2	1.5	0.3629806	912.4	13.2	1123.4	29.0	1557.9	74.6	41.4
Spot 149	698412	679512	14300.4	1.4	15.3	3.1	1.4	7.7	0.2	7.1	0.9154025	930.6	61.4	886.9	45.8	779.4	65.5	-19.4
Spot 151	1327848	1291914	19673.0	3.2	10.9	4.9	2.2	9.6	0.2	8.2	0.8586532	1031.0	78.3	1178.9	66.8	1461.5	93.3	29.5
Spot 152	745702	725522	7174.2	0.7	23.1	3.8	0.3	30.2	0.0	30.0	0.9919806	266.2	78.2	227.7	61.8	NA	NA	
Spot 154	598083	581898	5096.7	1.0	14.3	1.2	1.6	1.6	0.2	1.2	0.7118507	984.9	10.7	965.8	10.3	922.5	23.8	-6.8
Spot 155	1352019	1315431	45356.2	4.3	13.1	4.1	2.7	11.3	0.3	10.6	0.9337758	1477.6	139.6	1333.6	84.2	1109.2	81.0	-33.2
Spot 163	2265467	2204159	5629.2	1.3	23.7	2.4	0.2	14.3	0.0	14.0	0.9854819	198.9	27.5	169.9	22.3	NA	NA	
Spot 166	1273526	1239062	37897.0	8.7	14.4	0.9	1.6	1.7	0.2	1.4	0.8570534	983.6	13.2	959.4	10.5	904.1	17.9	-8.8
Spot 171	1971933	1918569	7233.6	1.6	22.5	2.1	0.3	17.4	0.0	17.2	0.9929379	290.5	49.0	252.8	38.9	NA	NA	
Spot 175	657368	639578	593.7	1.8	29.8	6.7	0.1	10.8	0.0	8.5	0.7852573	193.6	16.1	133.9	13.5	NA	NA	
Spot 178	308723	300368	3633.1	1.7	18.2	4.3	0.7	17.4	0.1	16.8	0.9693787	596.6	96.0	558.6	74.8	406.4	95.5	-46.8
Spot 18	2189541	2130288	22092.7	3.4	12.2	0.9	2.7	2.2	0.2	2.0	0.9109932	1389.3	25.3	1335.9	16.5	1251.1	17.9	-11.0
Spot 199	653044	635371	74949.2	3.9	13.5	4.4	2.1	8.5	0.2	7.3	0.8524485	1209.8	80.0	1151.7	58.7	1043.8	89.8	-15.9
Spot 2	726113	706463	5049.2	2.4	14.7	1.3	1.5	3.0	0.2	2.7	0.8994381	930.9	23.1	911.4	17.8	864.7	26.8	-7.7
Spot 204	166408	161905	4500.4	3.2	15.3	2.2	1.3	3.0	0.1	2.0	0.6740317	892.9	17.1	862.4	17.7	784.9	47.2	-13.8
Spot 208	3013395	2931847	18699.8	0.3	11.2	1.7	2.2	2.6	0.2	2.0	0.7615086	1054.6	19.2	1174.3	18.0	1402.0	32.1	24.8
Spot 213	139229	135461	3380.8	2.4	19.1	7.4	0.2	12.0	0.0	9.4	0.7863961	202.2	18.8	210.0	22.7	297.8	169.1	32.1
Spot 216	1179056	1147149	4479.0	2.5	21.2	3.3	0.2	9.1	0.0	8.4	0.9296265	178.6	14.8	170.3	14.2	56.5	NA	-216.0
Spot 219	95851	93257	1352.0	0.3	15.9	4.9	1.8	8.3	0.2	6.7	0.8105993	1196.9	73.4	1034.9	53.9	706.8	103.4	-69.3
Spot 220	765087	744382	894.5	2.6	53.8	13.5	0.0	32.9	0.0	30.0	0.9118153	120.6	35.9	47.9	15.4	NA	NA	
Spot 23	228062	221890	4102.5	1.5	13.5	2.1	2.0	2.8	0.2	1.8	0.6663395	1131.5	19.2	1102.5	18.7	1045.5	41.7	-8.2
Spot 230	690277	671597	25484.1	4.4	12.9	1.3	2.5	1.6	0.2	1.0	0.6019421	1371.0	12.0	1280.5	11.7	1131.7	25.6	-21.1
Spot 233	3814774	3711539	20615.7	9.7	14.2	1.0	1.2	2.3	0.1	2.1	0.9085678	726.3	14.4	782.6	12.6	946.9	19.7	23.3
Spot 241	883700	859785	25402.1	2.7	12.9	0.9	2.2	1.8	0.2	1.5	0.8663161	1199.6	16.9	1178.9	12.4	1141.3	17.7	-5.1
Spot 258	1010152	982816	9339.9	3.9	7.9	4.0	3.9	4.3	0.2	1.5	0.3565532	1292.3	17.9	1612.2	34.7	2059.5	70.8	37.3

Spot 261	693734	674960	3069.3	3.3	14.9	1.0	1.4	1.9	0.2	1.6	0.8408587	912.7	13.4	893.3	11.1	845.7	21.1	-7.9
Spot 264	285281	277561	3006.9	3.2	15.0	2.7	1.4	6.0	0.1	5.4	0.8973944	887.9	44.7	872.1	35.2	832.2	55.3	-6.7
Spot 271	1240380	1206813	9494.8	3.5	13.8	1.6	1.8	2.3	0.2	1.7	0.7267268	1051.9	16.5	1034.2	15.1	996.8	32.6	-5.5
Spot 272	1582631	1539803	109880.2	1.7	13.5	1.6	1.2	3.0	0.1	2.5	0.8363107	722.0	17.2	804.7	16.7	1040.8	33.3	30.6
Spot 274	116778	113618	1287.0	2.2	15.2	3.7	1.4	4.4	0.2	2.5	0.5587065	949.4	21.8	905.3	26.4	799.3	76.7	-18.8
Spot 275	475379	462514	809.9	1.5	25.9	25.1	0.2	28.8	0.0	14.0	0.4884643	209.7	29.0	164.7	43.7	NA	NA	
Spot 288	845949	823056	8323.3	1.2	16.0	1.5	1.1	2.1	0.1	1.4	0.6868541	757.2	10.1	740.9	10.9	691.9	32.0	-9.4
Spot 290	2700586	2627503	7143.0	5.3	24.4	2.8	0.3	18.7	0.0	18.5	0.9886936	295.8	53.5	238.4	39.8	NA	NA	
Spot 300	325101	316303	2952.4	2.6	19.9	2.9	1.3	3.2	0.2	1.5	0.4639574	1104.8	15.2	844.1	18.5	208.7	66.2	-429.3
Spot 307	375755	365586	12209.8	3.4	11.1	7.4	2.6	30.9	0.2	30.0	0.9710694	1225.7	335.2	1299.9	230.4	1424.5	141.1	14.0
Spot 312	480035	467044	3799.5	2.1	14.7	1.9	1.5	3.2	0.2	2.5	0.8040695	936.1	22.1	915.0	19.0	864.2	38.9	-8.3
Spot 45	368716	358738	2042.8	1.7	15.4	2.6	1.4	3.2	0.2	1.8	0.5733901	920.1	15.5	879.3	18.6	777.8	54.4	-18.3
Spot 51	877832	854076	295114.7	3.7	11.9	4.5	2.8	8.4	0.2	7.1	0.8434666	1411.7	90.2	1365.1	63.4	1292.8	88.1	-9.2
Spot 60	1273756	1239286	14106.6	6.0	14.1	1.4	1.7	2.1	0.2	1.5	0.7311149	1010.1	14.1	992.0	13.0	952.4	28.7	-6.1
Spot 63	1122475	1092099	100729.4	3.2	12.4	1.0	2.5	1.8	0.2	1.5	0.8374231	1296.2	17.5	1263.2	12.9	1207.3	19.2	-7.4
Spot 78	1102353	1072522	11018.5	4.3	14.3	1.3	1.6	1.7	0.2	1.2	0.6875087	1015.8	11.2	989.5	11.0	931.8	25.9	-9.0
Spot 81	1149376	1118272	8753.6	2.1	14.4	1.5	1.5	2.3	0.2	1.8	0.7624385	964.7	15.7	948.2	14.2	909.9	30.7	-6.0
Spot 87	924287	899274	18636.3	2.0	12.8	1.2	2.3	2.3	0.2	1.9	0.8410582	1225.3	21.5	1199.9	16.2	1154.4	24.7	-6.1
Spot 94	4384799	4266139	22142.6	62.8	21.7	1.8	0.3	13.6	0.0	13.5	0.9910982	260.3	34.5	235.9	28.7	-0.4	NA	63440.2
Spot 99	884362	860430	6418.1	2.8	14.9	1.7	1.6	5.0	0.2	4.7	0.9440415	1024.6	45.0	968.0	31.4	841.7	34.5	-21.7

Run 2

Spot 1	1995192	2054170	4302.7	1.1	19.0	2.3	0.2	3.5	0.0	1.9	0.5374204	158.0	2.9	160.3	5.1	194.9	67.7	18.9
Spot 2	296974	305753	12815.7	1.8	12.5	2.7	2.1	3.5	0.2	2.2	0.6392367	1104.8	22.5	1139.4	23.7	1205.8	52.5	8.4
Spot 3	1207231	1242918	9383.3	2.3	13.2	1.0	1.9	1.9	0.2	1.6	0.8310189	1082.6	16.1	1079.1	12.9	1071.9	21.7	-1.0
Spot 4	653597	672918	14220.8	1.3	13.7	1.5	1.6	3.0	0.2	2.5	0.8550675	934.2	22.1	958.6	18.4	1015.0	31.2	8.0
Spot 5	294639	303348	2010.1	1.3	15.8	6.7	0.3	8.0	0.0	4.0	0.5041015	257.6	10.2	282.1	19.7	490.7	152.3	47.5
Spot 6	1170704	1205310	3927.1	2.2	17.1	3.2	0.4	3.6	0.0	1.6	0.4390255	287.8	4.5	304.8	9.6	436.9	72.7	34.1
Spot 8	1351591	1391545	20092.0	3.4	14.2	1.0	1.5	1.7	0.2	1.3	0.8026998	938.9	11.8	943.5	10.3	954.4	20.5	1.6
Spot 10	4276434	4402848	12802.8	1.4	19.1	1.2	0.3	2.0	0.0	1.4	0.7102169	265.9	3.6	268.1	4.6	286.8	31.7	7.3
Spot 11	1246128	1282964	57880.7	3.4	12.3	1.1	2.0	3.5	0.2	3.3	0.946373	1057.1	32.4	1123.0	23.9	1252.8	22.2	15.6
Spot 12	1185648	1220696	18016.0	5.1	13.4	1.5	1.7	2.2	0.2	1.6	0.7125958	1008.8	14.5	1026.0	14.1	1062.7	30.7	5.1
Spot 13	1815386	1869049	12368.2	1.3	19.6	1.2	0.3	1.9	0.0	1.4	0.7513856	279.7	3.8	273.3	4.5	219.4	28.4	-27.5
Spot 14	473547	487545	1459.7	1.5	19.2	2.5	0.3	3.8	0.0	2.0	0.5237807	292.4	5.7	245.0	8.3	NA	NA	
Spot 15	4151508	4274229	170930.2	1.4	12.8	0.7	2.2	1.9	0.2	1.8	0.9358375	1160.9	19.2	1168.1	13.4	1181.5	13.4	1.7
Spot 16	3119421	3211633	1421634.5	4.7	11.6	0.9	2.7	2.0	0.2	1.8	0.9053376	1305.1	21.8	1329.1	15.1	1367.9	16.7	4.6
Spot 17	5616938	5782977	47652.2	13.7	14.3	1.0	1.5	1.8	0.2	1.5	0.8447193	929.2	13.1	934.4	10.9	946.7	19.6	1.8
Spot 18	438559	451523	2522.9	1.1	16.4	3.9	0.7	8.2	0.1	4.9	0.5982342	592.1	27.7	564.6	35.4	455.3	145.6	-30.1
Spot 20	458146	471689	56074.0	3.6	12.5	1.5	2.3	2.1	0.2	1.5	0.6999486	1219.3	16.3	1221.8	14.9	1226.1	29.4	0.6
Spot 24	4112063	4233618	5609.2	2.3	19.5	1.0	0.3	3.1	0.0	1.4	0.4586195	238.8	3.3	232.2	6.4	166.4	63.6	-43.5
Spot 25	5363979	5522541	34118.4	1.6	19.1	1.2	0.3	1.9	0.0	1.5	0.7673663	274.6	4.0	278.9	4.7	315.4	28.0	12.9
Spot 26	507996	523013	12859.5	1.1	12.3	1.4	2.3	2.2	0.2	1.6	0.7574275	1212.9	18.2	1217.6	15.4	1226.0	27.9	1.1
Spot 28	1299265	1337671	11955.0	2.7	20.2	3.5	0.2	5.2	0.0	3.8	0.7358276	172.2	6.5	170.1	8.1	141.9	82.5	-21.3
Spot 30	691402	711841	6836.5	3.6	12.9	1.1	1.8	2.0	0.2	1.5	0.7775389	1037.1	14.8	1058.7	13.1	1103.6	25.0	6.0

Spot 32	5481133	5643158	28978.7	5.8	19.4	1.5	0.3	2.1	0.0	1.4	0.6989395	236.2	3.3	239.7	4.4	274.1	33.6	13.8
Spot 33	5867202	6040640	38051.7	0.8	18.9	0.8	0.3	2.0	0.0	1.8	0.901528	266.8	4.7	273.7	4.8	333.8	19.5	20.1
Spot 34	1690823	1740805	2481.6	1.7	19.3	2.2	0.2	7.1	0.0	1.8	0.2595047	202.8	3.7	189.1	12.3	22.0	NA	-819.6
Spot 36	2561837	2637566	#####	2.0	10.0	1.0	3.8	1.9	0.3	1.7	0.8595423	1534.1	22.6	1584.9	15.5	1653.2	18.3	7.2
Spot 37	1475460	1519076	8472.2	1.4	19.7	2.6	0.2	2.9	0.0	1.3	0.4388483	168.2	2.1	169.0	4.5	179.3	60.0	6.2
Spot 38	3256587	3352854	30477.0	3.0	11.8	0.7	2.7	1.4	0.2	1.2	0.8685816	1318.4	14.0	1318.5	10.0	1318.7	13.0	0.0
Spot 39	2213846	2279288	4286.4	1.7	19.0	1.8	0.3	2.5	0.0	1.6	0.6239899	277.9	4.3	268.5	6.0	187.1	46.2	-48.6
Spot 40	892128	918500	1885.8	1.0	16.8	3.5	0.3	6.6	0.0	2.4	0.3645802	280.2	6.6	283.1	16.3	306.5	140.4	8.6
Spot 41	5411927	5571907	10244.0	1.4	19.0	1.4	0.3	1.9	0.0	1.2	0.6538225	260.4	3.1	261.9	4.3	275.6	32.6	5.5
Spot 42	354161	364630	58628.9	2.6	13.4	2.4	1.6	3.1	0.2	2.1	0.6583184	931.6	17.8	973.7	19.6	1070.1	47.3	12.9
Spot 43	617644	635901	24599.6	5.0	17.7	5.8	0.1	7.5	0.0	4.8	0.6344979	106.4	5.0	123.7	8.8	472.3	128.7	77.5
Spot 44	9451582	9730976	34373.9	1.8	17.4	1.0	0.7	1.6	0.1	1.2	0.7796978	537.5	6.4	534.1	6.6	519.3	21.9	-3.5
Spot 45	1614888	1662625	11142.2	2.7	11.9	0.8	2.5	1.3	0.2	1.1	0.8019399	1260.4	12.3	1267.1	9.7	1278.5	15.6	1.4
Spot 46	504539	519453	1218.0	0.6	9.9	7.0	1.0	7.6	0.1	2.4	0.3208583	500.3	11.8	709.4	39.0	1443.7	137.9	65.3
Spot 47	6455215	6646034	31400.5	1.6	18.8	1.0	0.3	1.8	0.0	1.5	0.8292076	268.3	3.8	277.1	4.3	351.4	22.3	23.6
Spot 48	498002	512723	9042.7	1.5	13.8	1.9	1.5	2.8	0.1	2.0	0.7136415	893.1	16.4	918.3	16.6	979.4	39.3	8.8
Spot 49	836364	861088	1479.7	0.8	19.5	2.7	0.2	4.1	0.0	2.7	0.6627429	192.6	5.2	163.7	6.2	NA	NA	
Spot 50	657459	676894	3335.9	2.9	14.0	1.2	1.3	2.2	0.1	1.9	0.8411322	849.3	14.9	853.7	12.8	865.2	24.9	1.8
Spot 51	1219171	1255211	949.5	2.3	21.3	3.5	0.0	20.0	0.0	2.7	0.1361254	68.4	1.9	45.9	9.0	NA	NA	
Spot 52	1106989	1139712	2877.5	4.6	17.9	2.3	0.3	4.1	0.0	1.9	0.4606037	269.5	4.9	267.9	9.6	254.1	83.0	-6.1
Spot 53	6052915	6231842	14741.1	1.5	19.3	1.2	0.3	1.9	0.0	1.3	0.6935802	270.5	3.4	268.8	4.4	254.6	31.0	-6.2
Spot 54	810034	833979	5258.5	2.1	13.5	2.3	1.5	2.6	0.2	1.3	0.4780145	919.8	10.8	942.1	16.2	994.6	47.0	7.5
Spot 57	1023575	1053833	143426.6	2.8	13.6	1.3	1.6	2.1	0.2	1.7	0.8021813	942.3	15.1	972.8	13.4	1042.2	25.8	9.6
Spot 58	1271007	1308579	5277.4	1.4	19.3	2.0	0.3	2.8	0.0	2.0	0.6945225	283.5	5.5	271.8	6.8	171.6	47.7	-65.2
Spot 59	446808	460016	9026.6	1.4	13.4	2.3	1.7	3.1	0.2	2.0	0.6538877	969.7	18.0	990.3	19.3	1036.0	46.7	6.4
Spot 60	633801	652536	6981.9	4.1	13.5	1.2	1.7	2.4	0.2	1.6	0.6636808	1004.0	14.7	1005.5	15.2	1008.7	36.2	0.5
Spot 61	3869872	3984267	13754.9	1.2	19.2	1.0	0.3	1.8	0.0	1.4	0.7829439	265.2	3.6	265.5	4.1	268.2	25.3	1.1
Spot 63	1820484	1874299	7906.9	1.2	19.3	1.2	0.3	2.0	0.0	1.6	0.7961997	279.0	4.4	272.6	4.8	218.1	28.3	-27.9
Spot 64	2497497	2571324	18997.5	1.3	19.4	1.3	0.3	1.9	0.0	1.3	0.7238584	285.8	3.8	282.4	4.6	254.3	29.5	-12.4
Spot 66	895905	922388	21427.6	2.5	13.5	1.3	1.8	1.8	0.2	1.2	0.684324	1060.2	11.9	1055.5	11.6	1045.7	26.1	-1.4
Spot 67	900629	927252	4651.8	1.2	18.6	3.0	0.3	3.9	0.0	1.4	0.3661478	273.5	3.8	271.8	9.2	256.8	82.8	-6.5
Spot 68	967976	996589	5571.9	1.9	16.9	3.6	0.3	4.3	0.0	2.3	0.5349891	264.2	6.0	290.5	10.9	507.7	80.2	48.0
Spot 69	3326320	3424648	11028.6	1.5	19.9	1.4	0.3	2.4	0.0	1.9	0.7790039	272.7	4.9	262.9	5.5	176.4	34.8	-54.6
Spot 70	664657	684305	22664.7	2.9	17.8	4.4	0.4	5.2	0.0	2.8	0.5396684	312.5	8.5	330.8	14.6	462.1	96.5	32.4
Spot 71	995539	1024968	18655.4	2.7	12.4	1.0	2.3	1.8	0.2	1.4	0.8175347	1216.4	16.1	1218.4	12.6	1222.0	20.0	0.5
Spot 72	2595924	2672661	5853.4	3.1	19.0	1.5	0.3	2.5	0.0	1.8	0.7394258	233.5	4.2	233.8	5.2	237.4	38.7	1.6
Spot 73	512693	527848	1705.6	1.1	18.9	4.5	0.2	6.6	0.0	4.8	0.7264974	186.4	8.8	169.6	10.3	NA	NA	
Spot 74	1543239	1588858	28526.3	3.0	12.6	1.1	2.2	1.9	0.2	1.5	0.8082002	1164.0	16.4	1176.5	13.3	1199.7	22.1	3.0
Spot 75	2874917	2959901	19705.9	9.8	18.3	1.6	0.3	2.5	0.0	1.9	0.7738739	232.3	4.4	247.3	5.5	391.8	35.8	40.7
Spot 77	2718545	2798907	4669.8	1.9	20.3	2.3	0.2	4.0	0.0	2.4	0.5887745	149.0	3.5	142.3	5.4	32.1	NA	-364.2
Spot 78	797394	820966	1091.8	0.7	17.9	4.7	0.2	6.5	0.0	4.3	0.6672596	197.8	8.4	172.1	10.2	NA	NA	
Spot 79	3272897	3369645	17674.6	2.5	18.9	2.4	0.4	6.3	0.0	5.8	0.9235056	309.7	17.7	311.0	17.0	320.6	55.2	3.4
Spot 80	1505978	1550496	2509.3	2.8	18.3	3.2	0.2	7.7	0.0	6.0	0.7801915	165.6	9.8	166.2	11.7	173.8	111.8	4.7

Spot 81	771356	794158	33624.6	1.0	18.1	4.3	0.2	4.6	0.0	1.4	0.3088289	190.3	2.6	210.0	8.6	437.6	96.4	56.5
Spot 82	531104	546803	1097.3	1.3	18.2	4.7	0.2	10.1	0.0	3.4	0.3397036	189.6	6.4	161.6	15.0	NA	NA	
Spot 83	1873556	1928939	100709.1	2.5	12.1	1.0	2.4	1.8	0.2	1.5	0.8168184	1223.2	16.3	1246.1	12.9	1285.8	20.2	4.9
Spot 84	972754	1001509	3671.7	1.3	18.0	3.9	0.3	4.4	0.0	2.0	0.4464565	279.4	5.3	282.1	10.8	304.5	89.1	8.2
Spot 85	478885	493041	13671.9	3.0	14.0	1.7	1.6	2.6	0.2	1.9	0.7320824	977.3	17.0	976.6	16.0	974.9	35.5	-0.2
Spot 86	1607060	1654565	40235.4	2.9	12.4	0.9	2.4	1.8	0.2	1.6	0.8652743	1220.8	17.3	1228.0	12.8	1240.8	17.6	1.6
Spot 87	1328081	1367340	12994.8	1.8	19.6	1.7	0.3	2.6	0.0	2.0	0.7552924	286.1	5.5	280.1	6.4	230.3	39.6	-24.2
Spot 88	2194515	2259386	9287.2	1.7	18.7	2.3	0.3	2.7	0.0	1.3	0.4721798	280.4	3.5	284.4	6.7	316.9	54.1	11.5
Spot 89	1239274	1275908	37167.4	1.6	9.7	0.9	4.1	1.8	0.3	1.6	0.8677846	1619.6	22.7	1658.6	14.9	1708.4	16.7	5.2
Spot 90	663592	683208	5232.9	3.2	13.6	1.0	1.5	2.0	0.2	1.6	0.8057143	921.8	14.1	940.4	12.5	984.3	24.6	6.4
Spot 91	632643	651345	26822.3	0.7	11.8	1.0	2.7	2.3	0.2	2.0	0.8866367	1348.5	24.6	1341.1	17.0	1329.3	20.4	-1.4
Spot 92	981673	1010692	24748.9	0.9	12.9	1.0	2.2	1.5	0.2	1.2	0.7738979	1195.1	12.9	1179.9	10.7	1152.0	19.2	-3.7
Spot 93	2348080	2417490	7265.5	1.8	19.0	2.1	0.3	2.6	0.0	1.4	0.5337096	270.5	3.7	270.3	6.2	268.5	50.6	-0.7
Spot 94	573313	590260	10562.4	3.2	14.4	1.5	1.5	2.9	0.2	2.4	0.8288927	934.5	20.8	927.9	17.6	912.2	33.3	-2.4
Spot 96	2630734	2708500	7301.9	1.5	19.0	1.2	0.3	2.7	0.0	1.8	0.640422	267.4	4.6	267.0	6.4	264.0	48.2	-1.3
Spot 97	8225608	8468761	3953.1	8.0	20.0	3.3	0.1	6.0	0.0	3.0	0.5085451	70.6	2.1	70.1	4.0	54.7	NA	-29.1
Spot 98	1919817	1976568	5008.9	1.9	18.9	2.0	0.3	3.5	0.0	1.9	0.5320433	266.7	4.9	263.6	8.1	236.7	68.4	-12.7
Spot 99	522744	538196	20139.2	2.6	14.1	1.3	1.5	2.1	0.2	1.7	0.8025981	919.0	14.6	933.3	13.0	967.3	25.9	5.0
Spot 102	177104	182340	1622.4	2.0	12.7	3.1	1.5	5.6	0.2	2.4	0.4358757	917.2	20.9	927.5	34.1	952.2	103.3	3.7
Spot 103	1509241	1553855	6914.6	7.2	17.5	2.3	0.7	3.5	0.1	2.6	0.7437338	539.8	13.4	523.2	14.2	451.2	51.7	-19.7
Spot 105	716247	737420	3815.6	1.0	16.4	1.5	0.8	2.1	0.1	1.4	0.6589232	623.6	8.2	604.4	9.5	532.9	34.3	-17.0
Spot 106	439642	452638	25135.2	3.1	13.9	1.0	1.5	1.4	0.1	1.0	0.7038354	889.9	8.5	923.4	8.8	1004.3	20.9	11.4
Spot 108	1620001	1667889	176116.9	2.7	11.8	0.9	2.5	1.6	0.2	1.3	0.8258402	1226.3	14.7	1267.5	11.5	1338.1	17.3	8.4
Spot 111	374451	385520	22444.2	3.7	12.8	1.9	2.0	2.4	0.2	1.4	0.5942042	1081.9	14.0	1112.1	16.0	1171.8	37.6	7.7
Spot 112	407996	420057	7288.8	0.8	8.8	1.3	5.0	1.9	0.3	1.3	0.7070142	1768.0	20.7	1811.6	16.0	1862.1	24.1	5.1
Spot 113	382048	393341	11915.7	1.5	12.6	1.3	1.9	2.2	0.2	1.7	0.8064821	1015.8	16.4	1070.9	14.3	1185.0	25.3	14.3
Spot 114	808171	832061	1222.9	2.3	20.7	4.0	0.1	10.3	0.0	4.1	0.3952724	128.3	5.2	98.5	9.7	NA	NA	
Spot 115	1880205	1935785	19879.5	0.9	19.1	2.7	0.3	4.3	0.0	3.3	0.7661873	270.7	8.6	274.5	10.2	307.0	62.3	11.8
Spot 116	573057	589997	15544.1	3.3	7.6	0.9	7.1	2.4	0.4	2.3	0.9347099	2109.9	40.7	2127.2	21.6	2144.0	15.0	1.6
Spot 117	2391798	2462501	9356.5	2.4	19.7	1.9	0.3	2.5	0.0	1.3	0.5337747	248.8	3.3	243.1	5.5	188.9	49.8	-31.7
Spot 118	6416451	6606124	69052.4	55.7	16.2	1.2	0.8	2.4	0.1	2.1	0.8588357	602.1	11.9	622.1	11.2	695.4	26.3	13.4
Spot 119	2671210	2750173	10217.6	2.2	19.8	1.3	0.2	1.8	0.0	1.2	0.6734657	192.2	2.3	192.0	3.2	189.3	31.6	-1.5
Spot 122	5854158	6027210	91661.1	31.8	14.3	0.8	1.4	1.6	0.1	1.4	0.8728879	885.0	11.8	904.3	9.8	951.6	16.3	7.0
Spot 123	1272439	1310052	28096.9	0.7	11.4	1.2	3.1	2.0	0.2	1.6	0.7915799	1436.0	20.3	1423.2	15.2	1404.2	23.3	-2.3
Spot 126	2015730	2075316	4885.5	6.4	16.8	1.4	0.6	2.4	0.1	1.8	0.7386692	433.5	7.4	446.6	8.7	514.5	35.6	15.7
Spot 127	2247746	2314190	23862.6	3.3	14.2	1.1	1.6	1.8	0.2	1.4	0.789033	970.9	13.0	969.8	11.4	967.1	23.0	-0.4
Spot 128	2054439	2115170	16669.1	1.1	19.0	1.4	0.3	2.2	0.0	1.6	0.7605683	286.2	4.6	290.1	5.5	321.4	31.9	10.9
Spot 130	3153797	3247024	6237.8	1.1	30.0	1.0	0.3	1.4	0.1	0.9	0.638034	451.9	3.8	279.0	3.3	NA	NA	
Spot 132	868476	894149	1476.0	1.5	18.5	3.9	0.2	8.8	0.0	2.6	0.2984645	191.8	5.0	173.8	14.0	NA	NA	
Spot 133	1335872	1375361	41772.3	2.5	12.9	0.9	2.1	1.6	0.2	1.3	0.8143769	1151.1	13.7	1155.8	11.0	1164.7	18.4	1.2
Spot 134	2356700	2426366	31842.2	2.5	21.3	0.9	0.3	1.5	0.1	1.2	0.7873474	321.8	3.8	292.7	3.9	66.8	22.4	-381.7
Spot 135	1132479	1165956	56786.5	1.6	19.3	2.6	0.3	3.6	0.0	2.6	0.7033123	287.3	7.2	289.5	9.1	308.0	58.8	6.7
Spot 137	903485	930192	1505.1	1.2	17.9	4.4	0.2	5.9	0.0	3.7	0.6284116	177.4	6.5	168.7	9.2	48.8	NA	-263.9

Spot 138	3526326	3630566	37555.8	1.6	19.4	1.0	0.3	1.7	0.0	1.4	0.8293974	282.7	4.0	283.7	4.3	291.7	22.1	3.1
Spot 139	648806	667985	60955.4	1.9	13.9	1.6	1.6	2.1	0.2	1.4	0.6749114	924.1	12.3	951.7	13.0	1016.1	31.6	9.1
Spot 140	2878472	2963562	32062.4	5.7	12.5	0.9	2.3	2.1	0.2	1.9	0.9055783	1188.5	21.0	1206.2	15.1	1238.1	17.8	4.0
Spot 141	2390565	2461231	428111.5	8.7	12.4	0.7	2.4	2.0	0.2	1.9	0.9339037	1227.2	20.7	1240.3	14.2	1263.2	13.9	2.9
Spot 142	2141372	2204672	4150.2	1.6	18.9	2.6	0.3	3.3	0.0	2.0	0.6143159	279.2	5.6	272.8	8.0	217.6	60.8	-28.3
Spot 143	505487	520430	3816.5	2.6	13.9	1.8	1.4	3.0	0.1	1.3	0.446409	880.7	10.8	891.5	17.5	918.5	54.3	4.1
Spot 144	569451	586285	55089.6	4.0	12.2	1.0	2.4	1.7	0.2	1.3	0.7971413	1208.1	14.8	1232.0	12.0	1274.0	19.8	5.2
Spot 145	442008	455074	8282.9	2.7	11.6	1.4	2.5	1.9	0.2	1.2	0.6343836	1242.7	13.3	1278.3	13.5	1338.7	27.7	7.2
Spot 146	677473	697500	4064.4	2.6	16.1	4.3	0.4	4.9	0.0	2.2	0.4484796	269.0	5.8	305.0	12.9	590.7	94.8	54.5
Spot 148	804802	828592	37476.9	1.9	14.0	1.2	1.5	3.1	0.1	2.8	0.9134558	896.8	23.4	926.7	18.6	998.4	25.3	10.2
Spot 149	2309479	2377749	38422.9	1.7	19.7	1.9	0.2	2.5	0.0	1.6	0.6388027	163.6	2.6	170.5	3.9	267.5	44.0	38.8
Spot 151	328589	338302	4833.6	1.4	16.2	5.2	0.3	5.9	0.0	2.4	0.4012318	208.6	4.9	244.8	12.9	607.6	117.2	65.7
Spot 152	1268163	1305650	2910.5	3.4	18.6	4.0	0.1	4.9	0.0	2.4	0.4834846	69.8	1.7	72.9	3.5	178.9	100.8	61.0
Spot 153	1834465	1888693	90910.1	2.6	12.6	1.1	2.1	1.8	0.2	1.4	0.7876225	1105.4	14.4	1142.8	12.3	1214.3	21.8	9.0
Spot 154	708284	729221	3883.2	1.1	19.1	3.0	0.2	5.8	0.0	3.1	0.5390475	183.1	5.7	182.6	9.8	175.2	114.9	-4.5
Spot 155	3347586	3446543	16200.0	1.1	18.0	2.3	0.3	2.5	0.0	1.0	0.3902976	281.8	2.7	299.6	6.6	440.8	51.9	36.1
Spot 156	1949119	2006736	36252.8	4.6	12.8	1.7	2.2	3.0	0.2	2.4	0.8113649	1203.7	26.3	1196.6	20.7	1183.7	34.1	-1.7
Spot 157	4251100	4376764	176158.3	3.7	12.6	1.2	2.4	2.0	0.2	1.6	0.7998865	1242.5	17.9	1234.4	14.1	1220.4	23.3	-1.8
Spot 158	434601	447448	1385.5	1.2	18.0	4.8	0.2	12.9	0.0	3.8	0.2952726	194.4	7.3	180.1	21.3	NA	NA	
Spot 159	2769495	2851362	46894.2	2.1	19.5	1.1	0.3	2.1	0.0	1.8	0.8483048	292.6	5.2	292.0	5.4	287.2	25.9	-1.9
Spot 160	782520	805652	1758.5	2.0	17.6	4.5	0.2	5.5	0.0	3.0	0.5488594	193.3	5.7	192.3	9.6	179.9	106.6	-7.5
Spot 161	850603	875747	3231.8	0.9	20.4	2.7	0.2	6.0	0.0	2.5	0.4128344	191.9	4.7	176.5	9.8	NA	NA	
Spot 162	1165265	1199710	32461.1	1.9	11.7	0.9	2.9	1.7	0.2	1.4	0.8313715	1400.9	18.0	1384.6	13.0	1359.6	18.4	-3.0
Spot 164	900136	926744	4071.3	2.1	12.7	1.3	2.0	1.8	0.2	1.3	0.705382	1103.7	13.0	1109.6	12.3	1121.3	25.8	1.6
Spot 165	2489911	2563514	191099.7	3.0	11.7	1.0	2.6	1.9	0.2	1.5	0.8333998	1277.1	17.9	1310.5	13.6	1365.5	19.7	6.5
Spot 166	1377499	1418219	39094.4	1.2	10.6	1.2	3.4	2.1	0.3	1.7	0.8096587	1465.6	22.3	1499.6	16.5	1547.9	23.2	5.3
Spot 167	1619125	1666988	32598.0	1.4	12.7	1.1	2.2	1.8	0.2	1.4	0.7828579	1185.6	15.3	1188.7	12.7	1194.2	22.2	0.7
Spot 168	2807344	2890331	7114.5	1.2	18.9	1.5	0.3	2.2	0.0	1.4	0.6398426	272.9	3.7	272.5	5.2	269.2	38.5	-1.4
Spot 169	678191	698239	19832.2	3.0	14.4	1.5	1.5	2.3	0.2	1.6	0.7214924	952.1	14.4	945.4	13.9	929.9	32.2	-2.4
Spot 170	991673	1020987	3907.5	1.6	18.9	1.7	0.3	2.5	0.0	1.6	0.6419937	279.7	4.5	271.2	6.1	198.4	45.4	-41.0
Spot 172	483335	497622	31418.9	3.1	14.2	2.3	1.6	4.1	0.2	3.3	0.815507	955.9	29.4	956.7	25.1	958.3	48.0	0.3
Spot 174	1132911	1166401	8062.9	6.8	13.7	1.0	1.6	1.8	0.2	1.3	0.7118026	981.6	11.6	989.0	11.3	1005.3	25.5	2.4
Spot 175	1758522	1810505	3572.9	0.9	19.5	2.4	0.2	4.5	0.0	1.8	0.3892866	178.1	3.1	173.0	7.2	103.7	98.6	-71.7
Spot 176	861534	887001	57776.9	0.8	12.7	0.8	2.1	1.5	0.2	1.3	0.8487068	1137.2	13.1	1158.2	10.2	1197.6	15.5	5.0
Spot 177	1941032	1998410	14983.5	1.8	20.3	2.3	0.2	6.1	0.0	5.6	0.9278973	168.5	9.4	167.4	9.4	151.9	53.1	-10.9
Spot 178	5321260	5478559	8421.4	2.7	19.1	1.4	0.3	2.1	0.0	1.6	0.7410761	249.7	3.9	250.7	4.7	259.9	33.0	3.9
Spot 179	1758341	1810318	7690.5	1.6	19.5	1.5	0.3	2.8	0.0	1.6	0.5936463	274.5	4.4	267.3	6.5	204.0	51.6	-34.6
Spot 180	412498	424692	19353.7	2.9	14.6	3.3	1.4	6.8	0.2	5.9	0.8735591	903.3	50.0	898.7	40.6	887.6	68.4	-1.8
Spot 181	1435763	1478205	419555.7	6.0	11.1	1.2	3.1	2.0	0.2	1.7	0.8207621	1431.5	21.3	1438.6	15.5	1449.1	22.0	1.2
Spot 183	1830390	1884497	64578.3	2.9	13.8	0.9	1.8	1.8	0.2	1.6	0.8596867	1077.6	15.5	1062.6	11.9	1032.0	18.7	-4.4
Spot 184	2548782	2624125	31066.0	2.7	13.8	0.7	1.8	1.6	0.2	1.4	0.8858602	1030.2	13.4	1027.9	10.3	1022.9	14.9	-0.7
Spot 185	1237215	1273788	18482.1	5.5	13.9	0.9	1.7	1.5	0.2	1.2	0.7980407	1000.0	11.1	995.2	9.6	984.5	18.5	-1.6
Spot 186	250403	257805	2374.1	2.7	13.4	3.3	1.3	5.0	0.1	2.6	0.5260333	808.4	20.0	835.4	28.5	908.0	87.8	11.0

Spot 187	1447974	1490776	11980.8	2.5	12.7	0.8	2.2	1.7	0.2	1.5	0.8840401	1186.2	16.3	1175.3	11.8	1155.3	15.8	-2.7
Spot 188	5418272	5578439	29015.1	15.9	19.7	1.0	0.3	1.7	0.0	1.4	0.8056584	238.7	3.2	238.2	3.6	232.8	23.5	-2.6
Spot 189	8772447	9031765	40975.7	0.6	19.2	0.9	0.3	2.0	0.0	1.8	0.8926322	277.2	4.8	280.5	4.9	307.7	20.4	9.9
Spot 190	1383482	1424379	24540.3	21.2	13.5	1.0	1.7	1.5	0.2	1.1	0.7352175	1017.3	10.6	1026.5	9.9	1046.1	21.0	2.8
Spot 191	622669	641075	19649.1	3.0	14.4	2.0	1.4	3.5	0.1	2.9	0.8219159	889.0	24.1	896.2	21.0	914.1	41.4	2.7
Spot 193	723501	744888	30864.6	2.2	12.8	1.2	2.2	1.8	0.2	1.4	0.7571028	1178.2	14.8	1172.9	12.7	1163.0	23.6	-1.3
Spot 194	590983	608452	12342.0	1.5	12.6	1.5	2.1	1.9	0.2	1.2	0.6276561	1133.6	12.3	1146.8	13.0	1172.1	29.1	3.3
Spot 195	3642761	3750443	272150.6	2.6	13.7	0.9	1.8	1.5	0.2	1.2	0.8135016	1027.2	11.8	1028.9	9.9	1032.6	18.0	0.5
Spot 196	722223	743573	19444.8	3.2	12.2	1.0	2.4	1.7	0.2	1.4	0.8187466	1231.8	15.7	1235.8	12.2	1242.7	19.2	0.9
Spot 197	1165209	1199654	245698.8	2.4	16.6	1.1	0.8	1.5	0.1	1.0	0.6987124	617.8	6.2	620.6	7.0	630.8	23.1	2.1
Spot 198	972986	1001748	20166.7	2.9	12.4	0.9	2.4	1.8	0.2	1.5	0.8575047	1232.9	17.3	1229.3	12.8	1223.0	18.2	-0.8
Spot 199	2064065	2125080	4944.4	1.3	8.9	1.0	4.7	2.7	0.3	2.2	0.8071125	1733.5	33.3	1766.2	22.7	1805.1	29.2	4.0
Spot 200	367799	378671	2093.4	1.8	15.4	5.4	0.2	6.8	0.0	4.1	0.601402	186.7	7.5	215.2	13.1	540.5	118.1	65.5
Spot 203	1255979	1293106	24064.8	3.0	11.8	0.9	2.8	1.7	0.2	1.5	0.8486631	1382.0	18.3	1357.7	13.0	1319.7	17.7	-4.7
Spot 204	742241	764182	2709.9	1.1	16.4	4.9	0.4	5.4	0.0	2.1	0.3969701	295.2	6.2	314.7	14.6	461.6	110.1	36.0
Spot 205	550163	566426	1044.1	3.1	17.6	2.5	0.4	4.2	0.1	2.9	0.6825847	405.0	11.2	329.0	11.8	NA	NA	
Spot 206	2637572	2715540	24916.2	1.7	19.3	1.4	0.3	1.8	0.0	1.1	0.616576	267.9	2.9	267.4	4.2	263.1	32.5	-1.8
Spot 207	2295334	2363185	100847.4	1.6	14.2	3.2	1.6	4.8	0.2	3.6	0.754018	993.8	33.4	980.7	30.3	951.5	64.6	-4.4
Spot 208	1559324	1605418	3231.3	1.3	19.0	2.1	0.3	3.0	0.0	2.0	0.6727846	300.5	5.9	280.8	7.3	119.5	52.1	-151.5
Spot 210	272369	280420	923.5	2.5	19.0	4.4	0.2	10.2	0.0	4.1	0.4047234	275.8	11.1	203.0	18.8	NA	NA	
Spot 211	882986	909088	1059.7	2.0	20.2	2.6	0.2	3.6	0.0	1.8	0.4926727	242.6	4.2	176.0	5.8	NA	NA	
Spot 212	1362484	1402760	7566.4	2.6	17.2	1.1	0.7	1.7	0.1	1.2	0.7235914	541.6	6.4	529.2	7.0	476.1	26.0	-13.8
Spot 214	3005523	3094368	147864.3	4.2	12.3	1.6	2.2	2.2	0.2	1.4	0.6617321	1160.1	15.2	1187.8	15.1	1238.6	31.8	6.3
Spot 215	1680059	1729722	149192.6	1.6	16.9	1.2	0.9	1.9	0.1	1.5	0.7823067	641.2	9.2	630.7	9.0	593.2	26.0	-8.1
Spot 217	830538	855089	2685.1	0.9	18.7	3.4	0.2	4.6	0.0	2.2	0.4810001	186.6	4.1	181.8	7.7	120.1	96.1	-55.4
Spot 218	1031056	1061534	2446.1	1.1	19.0	3.3	0.2	4.8	0.0	3.0	0.6341974	197.7	5.9	186.8	8.1	50.8	NA	-289.5
Spot 219	3155742	3249027	84035.9	2.3	19.9	1.1	0.3	1.8	0.0	1.4	0.7769872	233.1	3.2	232.0	3.8	220.5	26.4	-5.7
Spot 220	623166	641587	17017.0	2.8	14.2	1.5	1.5	2.2	0.2	1.6	0.7229967	938.4	13.6	938.6	13.2	939.0	30.6	0.1
Spot 221	1484190	1528063	44914.9	3.0	20.3	2.3	0.1	3.1	0.0	2.0	0.6533021	98.3	2.0	101.1	3.0	166.5	54.6	41.0
Spot 222	1567111	1613436	81883.8	0.9	13.7	1.3	1.8	2.0	0.2	1.5	0.7504299	1063.8	14.8	1052.6	13.2	1029.5	27.0	-3.3
Spot 223	1825465	1879426	16500.7	2.9	13.0	1.0	2.1	1.8	0.2	1.4	0.8004761	1151.1	14.9	1136.3	12.1	1108.0	21.2	-3.9
Spot 225	2348145	2417558	34381.0	1.9	14.2	0.9	1.5	1.5	0.2	1.2	0.8242564	918.9	10.7	925.0	9.2	939.6	17.5	2.2
Spot 226	2253716	2320337	35683.6	1.9	18.9	1.3	0.3	1.9	0.0	1.3	0.7057014	271.4	3.5	277.5	4.5	329.5	30.1	17.6
Spot 227	1802468	1855750	3264.1	0.7	20.2	2.6	0.2	5.1	0.0	3.1	0.6202179	204.8	6.4	187.2	8.7	NA	NA	
Spot 228	2090367	2152159	2015.6	1.7	20.3	3.4	0.1	4.9	0.0	1.8	0.3705586	55.2	1.0	49.7	2.4	NA	NA	
Spot 229	252793	260266	11594.2	3.9	11.9	1.5	2.2	2.4	0.2	1.9	0.7656316	1111.9	19.0	1172.8	16.9	1287.1	30.4	13.6
Spot 230	1854877	1909708	97654.7	1.0	19.3	2.1	0.3	2.6	0.0	1.6	0.6213302	282.7	4.5	283.3	6.5	288.2	47.1	1.9
Spot 231	4911900	5057098	34683.5	8.6	16.6	1.2	0.8	1.9	0.1	1.5	0.7783593	596.9	8.3	600.6	8.5	614.6	25.4	2.9
Spot 232	2372291	2442417	44230.8	3.6	11.5	0.9	2.9	1.3	0.2	0.9	0.7007019	1406.4	11.6	1393.5	10.0	1373.9	18.0	-2.4
Spot 233	1695522	1745643	45181.6	3.0	11.4	1.1	2.7	3.5	0.2	3.3	0.9512843	1298.6	38.9	1333.1	25.8	1389.1	20.6	6.5
Spot 234	6165613	6347872	17414.3	0.8	19.2	1.4	0.3	1.9	0.0	1.3	0.6747184	270.4	3.4	270.7	4.5	273.1	32.3	1.0
Spot 235	432512	445298	31611.7	4.1	14.4	2.5	1.5	4.1	0.2	3.3	0.7911204	927.7	28.3	926.0	25.2	922.1	52.1	-0.6
Spot 236	1228285	1264593	21777.1	1.9	13.7	1.4	1.8	1.9	0.2	1.2	0.6638402	1039.6	11.9	1032.4	12.1	1017.4	28.4	-2.2

Spot 238	576621	593666	16839.0	1.9	12.6	1.3	2.2	2.0	0.2	1.5	0.7441991	1203.2	16.5	1194.6	14.2	1179.2	26.8	-2.0
Spot 239	1561222	1607373	20328.6	3.5	13.8	1.0	1.7	1.9	0.2	1.6	0.8255395	995.4	14.4	999.2	12.0	1007.7	21.6	1.2
Spot 240	398280	410053	9639.8	2.7	12.5	1.5	2.2	2.4	0.2	1.9	0.7830877	1171.5	20.4	1175.6	17.0	1183.2	30.0	1.0
Spot 241	218467	224925	2499.6	1.1	11.7	2.7	2.2	3.4	0.2	2.0	0.5752474	1139.2	20.5	1168.6	23.7	1223.6	54.8	6.9
Spot 242	1288056	1326131	39728.4	16.8	12.3	0.8	2.4	1.7	0.2	1.5	0.8853459	1258.0	17.1	1251.6	12.2	1240.6	15.4	-1.4
Spot 243	305955	314999	11755.8	2.6	14.7	2.4	1.3	4.7	0.1	4.0	0.8639448	869.3	32.9	865.4	27.3	855.7	48.9	-1.6
Spot 244	3730235	3840502	217454.0	3.3	14.2	0.7	1.5	1.2	0.2	1.0	0.8004279	937.7	8.7	943.3	7.7	956.3	15.3	1.9
Spot 245	817005	841156	30422.6	2.8	12.3	1.6	2.2	2.2	0.2	1.6	0.7115666	1169.1	17.1	1191.5	15.8	1232.4	31.0	5.1
Spot 247	1975394	2033787	37186.8	13.5	13.4	1.6	1.0	2.6	0.1	2.1	0.7980995	610.6	12.2	719.6	13.5	1076.3	31.7	43.3
Spot 249	691527	711969	7477.1	1.0	14.9	4.6	0.4	5.3	0.0	2.7	0.5035821	308.8	8.1	375.4	16.7	810.1	96.5	61.9
Spot 252	1411715	1453446	3035.5	1.7	18.9	1.8	0.3	3.3	0.0	1.5	0.4443756	277.6	4.0	262.1	7.6	125.2	69.2	-121.8
Spot 254	1616888	1664684	27251.1	3.8	11.1	0.8	3.2	1.4	0.3	1.2	0.8261255	1476.7	15.8	1463.6	11.2	1444.6	15.5	-2.2
Spot 255	1899069	1955207	3491.5	1.4	18.8	1.9	0.3	2.2	0.0	1.2	0.5250861	278.8	3.2	268.2	5.2	176.3	43.7	-58.2
Spot 256	3583723	3689659	15081.8	1.4	19.2	1.5	0.3	2.4	0.0	1.8	0.7402553	271.5	4.7	272.7	5.7	283.4	36.7	4.2
Spot 258	4459620	4591448	11211.0	2.1	19.1	1.1	0.3	1.7	0.0	1.3	0.7432838	280.1	3.6	279.4	4.3	273.7	26.8	-2.3
Spot 259	3968331	4085637	44004.3	2.8	14.4	0.8	1.5	1.6	0.2	1.3	0.8387208	915.8	11.2	918.3	9.4	924.4	17.5	0.9
Spot 260	4395077	4524997	868.5	0.9	20.0	2.3	0.0	3.7	0.0	1.5	0.3934154	54.4	0.8	38.5	1.4	NA	NA	
Spot 261	1251413	1288406	14177.0	1.7	10.2	0.8	3.8	1.8	0.3	1.6	0.8869635	1601.5	22.5	1596.7	14.4	1590.4	15.4	-0.7
Spot 262	3125341	3217728	3308.5	9.7	16.6	2.0	0.4	2.5	0.1	1.5	0.6154135	316.4	4.7	336.0	7.1	473.9	43.6	33.2
Spot 263	3509336	3613074	9370.6	1.2	19.0	1.4	0.3	2.3	0.0	1.7	0.7334363	275.6	4.5	275.8	5.5	277.6	35.2	0.8
Spot 264	1493983	1538146	937.5	3.0	19.4	3.8	0.1	5.5	0.0	2.6	0.4739124	81.7	2.1	62.5	3.3	NA	NA	
Spot 265	1187673	1222781	6473.0	4.0	13.6	1.2	1.7	1.9	0.2	1.5	0.7935853	1018.0	14.2	1013.3	12.2	1003.1	23.4	-1.5
Spot 266	2984640	3072868	22965.0	0.8	18.5	2.6	0.3	2.9	0.0	1.4	0.4643851	252.6	3.4	265.1	6.8	377.2	58.3	33.0
Spot 267	629983	648606	18223.8	1.8	14.4	1.6	1.5	2.3	0.2	1.7	0.7116322	943.9	14.7	934.3	14.3	911.5	33.9	-3.6
Spot 269	1080567	1112509	5212.0	2.7	14.2	1.6	1.5	2.7	0.2	2.2	0.8029125	925.7	18.8	913.7	16.4	884.7	33.6	-4.6
Spot 270	6886558	7090129	19417.8	15.1	19.9	0.9	0.3	1.3	0.0	0.9	0.683616	255.4	2.2	250.2	2.8	201.8	21.7	-26.6
Spot 271	1372607	1413182	4507.8	1.3	16.9	6.1	0.1	8.2	0.0	5.0	0.606723	61.9	3.1	73.8	5.8	480.0	143.9	87.1
Spot 272	4465761	4597771	101004.5	0.8	19.0	2.2	0.3	3.5	0.0	2.7	0.7841998	282.9	7.5	289.5	8.8	342.4	48.8	17.4
Spot 273	1011826	1041736	103476.2	3.7	12.7	1.0	2.2	1.6	0.2	1.2	0.7719671	1174.2	13.1	1179.9	11.0	1190.2	19.8	1.3
Spot 274	2872069	2956969	45964.4	1.7	12.7	0.8	2.3	1.5	0.2	1.3	0.8447143	1215.6	14.1	1202.0	10.6	1177.6	15.9	-3.2
Spot 277	3883025	3997809	26135.3	2.6	17.5	0.8	0.6	1.6	0.1	1.3	0.8476666	496.2	6.4	498.9	6.2	511.2	18.4	2.9
Spot 279	2469853	2542863	170322.8	4.0	12.5	0.8	2.2	1.6	0.2	1.4	0.8638653	1138.7	14.1	1166.4	10.8	1218.3	15.5	6.5
Spot 280	3153189	3246398	2630.6	3.5	20.6	2.2	0.1	4.3	0.0	1.6	0.381203	69.4	1.1	63.7	2.6	NA	NA	
Spot 281	913880	940895	64827.4	3.2	11.5	1.1	2.8	1.7	0.2	1.3	0.7707378	1336.8	15.9	1352.0	12.8	1375.9	20.9	2.8
Spot 282	1030195	1060648	58080.0	4.0	14.3	1.0	1.6	1.6	0.2	1.3	0.8027378	988.7	12.1	978.4	10.3	955.3	20.1	-3.5
Spot 283	2567403	2643296	26077.8	1.3	13.4	0.9	1.7	1.6	0.2	1.3	0.8073637	982.8	11.6	1010.2	10.0	1070.1	18.6	8.2
Spot 285	1071951	1103638	35258.5	1.7	14.4	1.1	1.5	1.9	0.2	1.6	0.8054956	908.9	13.2	916.2	11.7	933.6	23.5	2.6
Spot 286	471535	485474	33536.4	2.3	12.8	1.4	2.1	2.3	0.2	1.8	0.7795143	1138.4	18.6	1145.7	15.7	1159.7	28.3	1.8
Spot 287	5529785	5693248	11191.1	11.4	18.9	1.3	0.3	1.8	0.0	1.2	0.6867519	268.8	3.3	271.3	4.3	293.1	30.1	8.3
Spot 288	442385	455462	10052.1	1.5	12.9	1.1	2.1	2.2	0.2	1.8	0.8019289	1155.6	18.6	1142.8	15.1	1118.5	26.1	-3.3
Spot 290	1748907	1800605	10570.2	2.9	12.6	1.1	2.2	1.7	0.2	1.2	0.7024445	1173.9	12.9	1170.3	11.9	1163.7	24.2	-0.9
Spot 292	1545742	1591435	13947.6	1.7	19.0	1.9	0.3	2.7	0.0	2.0	0.7293586	272.0	5.3	273.8	6.5	289.2	42.6	6.0
Spot 293	1723173	1774111	53593.7	1.5	19.7	2.0	0.2	2.6	0.0	1.7	0.6434947	174.7	2.9	179.3	4.3	239.5	45.8	27.0

Spot 294	778367	801376	9571.2	1.6	12.9	1.1	1.9	3.6	0.2	3.4	0.9470021	1077.9	33.7	1089.5	24.0	1112.9	23.0	3.1
Spot 295	5286174	5442437	54472.4	9.4	14.1	1.4	0.5	2.2	0.1	1.8	0.7909653	322.3	5.5	414.7	7.6	967.8	27.7	66.7
Spot 296	973325	1002097	4099.7	1.8	19.3	2.4	0.2	3.2	0.0	1.7	0.5271401	188.0	3.1	184.5	5.3	139.9	63.2	-34.4
Spot 297	3078490	3169492	66887.6	8.8	14.3	1.0	1.5	2.4	0.2	2.2	0.9166875	935.9	19.4	936.8	14.9	939.0	19.9	0.3
Spot 298	3066589	3157239	182832.0	1.1	19.6	1.0	0.3	1.6	0.0	1.3	0.7749578	276.0	3.5	275.5	4.0	271.2	23.9	-1.8
Spot 299	486302	500678	3192.6	1.6	18.2	3.6	0.3	4.4	0.0	2.4	0.5412083	282.7	6.6	277.9	10.7	237.7	85.2	-19.0
Spot 300	533384	549151	7217.1	1.6	10.9	7.7	0.4	8.1	0.0	2.5	0.3083901	203.3	5.0	341.7	23.5	1436.9	147.4	85.9
Spot 304	1741180	1792650	4815.8	1.8	18.8	1.7	0.3	3.0	0.0	1.8	0.5937815	296.9	5.1	288.8	7.5	224.0	55.5	-32.5
Spot 305	3761418	3872607	8536.2	26.7	18.7	2.7	0.3	3.1	0.0	1.4	0.4599956	243.5	3.4	249.3	6.8	303.4	62.3	19.7
Spot 306	570711	587582	3962.8	6.0	13.6	1.4	1.6	3.7	0.2	2.2	0.5951233	1002.9	20.2	988.4	23.1	956.3	60.0	-4.9
Spot 307	2613620	2690880	4013.5	3.0	20.0	1.4	0.2	3.5	0.0	1.5	0.4396729	233.1	3.5	216.6	6.7	40.5	NA	-475.0
Spot 308	757700	780098	1986.7	1.6	18.0	3.3	0.3	5.4	0.0	1.7	0.3057279	271.9	4.4	257.6	12.3	129.4	121.2	-110.1
Spot 309	699816	720503	10522.8	3.9	12.8	1.1	2.1	1.6	0.2	1.2	0.7484137	1159.9	13.0	1154.4	11.3	1144.0	21.6	-1.4
Spot 311	532108	547838	3371.0	1.9	17.1	2.1	0.6	2.8	0.1	1.7	0.6090091	466.1	7.7	456.3	10.4	407.1	50.0	-14.5
Spot 313	3133141	3225758	26157.5	3.4	14.2	1.6	1.3	2.6	0.1	2.1	0.7898213	831.4	16.0	861.8	15.1	940.8	32.7	11.6
Spot 314	1294853	1333130	11998.2	1.5	19.0	2.9	0.3	3.7	0.0	2.4	0.6336236	279.7	6.5	280.0	9.1	282.7	65.9	1.1
Run 2 (discordant)																		
Spot 100	240704	247820	1247.7	1.8	15.5	6.1	1.3	8.1	0.1	5.4	0.6670492	872.3	44.3	839.8	46.6	754.7	128.2	-15.6
Spot 101	269019	276971	6593.0	3.2	16.6	2.2	1.5	3.0	0.2	2.1	0.6915202	1054.1	20.5	921.9	18.4	617.4	47.4	-70.7
Spot 104	1882959	1938620	18643.9	2.1	12.5	1.5	2.6	4.2	0.2	4.0	0.9386719	1358.2	48.7	1297.9	31.0	1199.7	28.8	-13.2
Spot 107	4908372	5053466	4955484.8	6.4	13.1	1.4	1.4	2.3	0.1	1.9	0.799264	803.8	14.0	888.1	13.7	1104.4	27.8	27.2
Spot 109	590610	608069	15253.6	3.1	13.6	2.6	1.4	4.9	0.1	4.1	0.8419608	813.0	31.4	872.7	28.6	1027.3	53.3	20.9
Spot 110	463136	476827	4512.6	1.9	13.1	1.4	2.1	2.3	0.2	1.8	0.8019013	1162.3	19.3	1141.6	15.6	1102.5	27.1	-5.4
Spot 120	3363128	3462544	64946.9	18.3	9.1	0.8	3.8	1.9	0.2	1.7	0.8979763	1435.9	21.7	1587.6	15.1	1795.5	15.0	20.0
Spot 121	498534	513271	11228.8	0.8	27.5	2.8	0.2	30.1	0.0	30.0	0.9956886	259.6	76.3	190.1	52.3	NA	NA	
Spot 124	302152	311084	386.8	0.3	57.5	61.7	0.1	61.7	0.0	2.6	0.042672	190.4	4.9	70.5	42.1	NA	NA	
Spot 125	3321464	3419649	5229.3	1.5	20.5	3.9	0.1	10.0	0.0	9.3	0.9222403	77.4	7.1	79.4	7.7	139.2	91.3	44.4
Spot 129	3724533	3834632	30436.8	5.0	20.0	1.8	0.3	6.5	0.0	6.3	0.959664	277.8	17.1	268.7	15.5	189.5	42.8	-46.6
Spot 131	2092212	2154059	94112.5	3.9	5.8	2.4	6.2	3.6	0.3	2.7	0.7470358	1489.7	36.1	2001.1	31.8	2580.2	40.4	42.3
Spot 136	368855	379758	3374.4	2.5	15.1	2.9	1.5	3.5	0.2	2.0	0.564344	964.2	17.5	919.1	20.9	812.6	59.8	-18.7
Spot 147	464255	477978	38280.1	2.2	13.9	1.7	2.4	2.1	0.2	1.3	0.6008448	1399.9	16.0	1241.4	15.1	976.1	34.4	-43.4
Spot 150	310380	319555	1293.9	1.5	16.5	3.7	1.2	5.0	0.1	3.4	0.6693126	859.3	27.1	797.2	27.8	627.2	80.6	-37.0
Spot 163	905820	932596	1917.6	0.6	22.7	3.9	0.2	15.5	0.0	15.0	0.9685002	203.1	30.0	180.3	25.6	NA	NA	
Spot 171	576579	593623	734.4	4.5	25.2	7.7	0.1	13.9	0.0	11.6	0.8331311	102.8	11.8	85.7	11.4	NA	NA	
Spot 173	171674	176749	304.6	2.2	8.0	25.3	0.5	27.7	0.0	11.3	0.4083299	191.0	21.3	424.9	96.6	2033.2	455.9	90.6
Spot 182	362978	373708	1657.1	1.0	16.1	8.2	0.3	11.7	0.0	8.4	0.7124267	197.4	16.3	240.2	25.1	682.7	176.2	71.1
Spot 19	773050	795902	29837.9	1.2	10.2	1.3	4.1	2.2	0.3	1.7	0.7921412	1696.8	25.7	1651.9	17.7	1595.3	24.8	-6.4
Spot 192	218001	224446	1863.5	1.2	16.3	4.1	1.7	20.3	0.2	19.9	0.9797562	1180.8	214.3	1008.7	130.3	651.8	87.1	-81.2
Spot 201	333955	343826	4171.1	1.7	15.2	3.2	1.4	3.7	0.2	1.9	0.4956811	903.0	15.6	872.3	21.9	795.1	68.0	-13.6
Spot 202	1329627	1368932	17925.6	3.0	12.9	3.0	1.6	3.4	0.1	1.6	0.4743028	892.6	13.5	966.6	21.3	1138.9	59.8	21.6
Spot 209	1955418	2013222	210240.8	1.4	21.6	1.8	0.3	15.0	0.0	14.9	0.9923919	306.3	44.5	274.8	36.1	14.3	NA	-2048.1
Spot 21	180860	186206	81274.2	1.9	13.3	2.7	1.4	3.6	0.1	2.4	0.6655292	797.9	18.2	874.7	21.4	1074.6	54.7	25.8
Spot 213	3500422	3603896	66551.6	7.5	12.5	0.8	2.4	1.6	0.2	1.4	0.8704749	1268.5	16.5	1241.8	11.8	1195.7	15.9	-6.1

Spot 216	85347	87870	838.5	2.3	19.6	8.7	1.1	10.2	0.2	5.4	0.5283981	968.4	48.6	771.9	55.4	238.6	200.7	-305.8
Spot 22	644151	663193	5072.9	2.7	14.9	1.0	1.4	1.6	0.2	1.3	0.7892122	911.5	10.7	889.5	9.4	835.1	20.3	-9.1
Spot 224	484585	498910	4873.5	4.0	14.7	1.7	1.6	2.4	0.2	1.7	0.7088479	988.0	15.6	952.5	14.8	871.4	35.0	-13.4
Spot 23	486279	500653	4483.1	3.7	14.9	2.1	1.4	3.1	0.2	2.3	0.7499618	913.5	19.8	890.8	18.4	835.0	42.8	-9.4
Spot 237	676077	696062	1209.4	1.6	28.5	4.7	0.1	9.8	0.0	8.5	0.8747699	194.3	16.3	140.0	12.8	NA	NA	
Spot 248	649446	668644	2324.2	1.7	23.2	4.1	0.3	18.9	0.1	18.5	0.9757338	332.3	59.9	277.1	46.0	NA	NA	
Spot 250	575838	592860	35831.2	1.9	15.0	3.1	1.5	5.8	0.2	4.9	0.8408079	990.5	44.6	940.1	35.4	824.0	65.3	-20.2
Spot 251	955800	984054	7985.5	4.5	13.4	3.9	1.7	7.3	0.2	6.2	0.8477359	982.5	56.2	1004.8	46.4	1053.9	77.7	6.8
Spot 253	5546712	5710675	110978.1	9.9	12.5	0.8	2.4	1.6	0.2	1.4	0.8587317	1281.4	16.0	1251.0	11.5	1199.0	16.2	-6.9
Spot 257	1745502	1797100	38683.3	4.2	11.4	1.4	3.1	2.7	0.3	2.4	0.8649667	1479.0	31.4	1439.8	21.1	1382.5	26.5	-7.0
Spot 268	534335	550130	3778.5	2.0	13.0	1.8	2.1	2.7	0.2	2.0	0.7416746	1170.2	21.2	1150.5	18.4	1113.6	35.8	-5.1
Spot 27	343656	353815	21412.1	1.4	17.1	4.1	1.1	10.5	0.1	9.7	0.9207586	854.1	77.5	772.4	57.0	542.9	89.8	-57.3
Spot 275	604396	622262	4905.6	1.0	12.9	2.4	2.2	3.7	0.2	2.9	0.7681656	1205.6	31.7	1182.8	26.2	1141.4	47.7	-5.6
Spot 276	749860	772026	2759.6	1.2	19.2	5.2	0.2	12.5	0.0	11.4	0.9080619	207.6	23.2	214.6	24.2	291.7	119.7	28.8
Spot 278	644446	663496	383.0	4.9	501.6	74.4	0.0	80.3	0.0	30.0	0.3737598	109.5	32.6	4.8	3.8	NA	NA	
Spot 284	534716	550522	2880.2	2.4	15.4	3.1	1.4	3.5	0.2	1.6	0.4677473	908.2	13.8	869.6	20.3	772.5	64.7	-17.6
Spot 289	435630	448508	2129.1	3.2	15.9	1.7	1.3	2.5	0.2	1.9	0.7441415	925.3	16.3	863.0	14.8	706.2	36.1	-31.0
Spot 29	658337	677798	2943.8	1.5	14.9	2.4	1.4	2.7	0.2	1.3	0.490026	929.3	11.6	902.3	16.3	836.8	49.5	-11.1
Spot 291	1493642	1537795	36495.3	3.5	11.9	1.0	2.8	2.0	0.2	1.8	0.8795678	1372.5	21.8	1342.8	15.0	1295.7	18.6	-5.9
Spot 301	443911	457033	135471.4	2.1	14.2	1.6	1.7	2.2	0.2	1.6	0.7046726	1035.5	15.1	1006.2	14.3	942.8	32.5	-9.8
Spot 302	436050	448940	2513.4	2.7	15.5	1.7	1.4	2.4	0.2	1.6	0.6905573	919.4	14.0	874.2	13.9	761.5	36.1	-20.7
Spot 303	4164129	4287222	30051.7	0.9	19.4	2.1	0.3	12.1	0.0	11.9	0.9845691	276.6	32.2	275.8	29.2	269.0	48.5	-2.8
Spot 31	456668	470167	36536.5	3.5	13.6	3.9	1.4	8.2	0.1	7.3	0.8826983	856.0	58.3	904.5	49.4	1024.8	78.3	16.5
Spot 310	567570	584348	2456.9	3.3	15.4	1.6	1.4	2.3	0.2	1.6	0.7231673	938.2	14.2	890.5	13.4	773.8	32.8	-21.2
Spot 312	2337199	2406288	23843.3	4.2	12.0	0.8	2.7	1.4	0.2	1.1	0.8114087	1372.9	14.2	1338.4	10.5	1283.8	16.1	-6.9
Spot 315	380677	391930	4516.6	1.3	27.6	6.2	0.3	28.8	0.1	28.1	0.9763828	429.5	116.7	300.3	74.9	NA	NA	
Spot 35	1664225	1713421	9443.2	0.6	29.6	1.6	0.6	30.0	0.1	30.0	0.9985578	746.1	211.4	459.0	111.4	NA	NA	
Spot 55	542137	558163	2438.7	2.0	13.9	1.6	1.8	2.1	0.2	1.4	0.6440161	1093.5	13.7	1055.1	13.9	976.5	33.0	-12.0
Spot 56	361687	372379	5567.7	18.9	15.3	3.3	1.4	5.2	0.2	3.9	0.7623093	962.6	35.2	909.2	31.0	781.7	70.3	-23.1
Spot 62	7458655	7679137	136382.9	3.4	13.5	0.9	2.0	2.5	0.2	2.3	0.9287031	1158.9	24.8	1119.0	17.0	1042.1	18.8	-11.2
Spot 65	1289045	1327150	37187.4	1.0	20.1	2.7	0.3	13.7	0.1	13.5	0.979834	318.7	41.8	302.2	35.9	176.9	64.0	-80.2
Spot 7	602020	619816	347245.1	0.9	17.5	3.9	0.2	8.6	0.0	7.6	0.8900227	200.8	15.1	225.6	17.4	492.9	86.3	59.3
Spot 76	1043004	1073835	2810.0	1.1	18.1	6.0	0.2	12.7	0.0	11.2	0.8802939	201.1	22.2	219.8	25.2	425.1	134.8	52.7
Spot 9	601898	619690	1154.8	1.8	25.6	4.5	0.2	25.5	0.0	25.1	0.9843358	231.9	57.2	183.0	42.7	NA	NA	
Spot 95	1334552	1374002	17264.3	1.4	15.7	4.7	0.4	9.3	0.0	8.0	0.8614709	313.7	24.6	368.8	28.8	731.5	100.3	57.1

Table S22. DZStats Quantitative Comparison Statistics

NM8A

Cross correlation Coefficient	0.851
Likeness	0.816
Similarity	0.957
K-S p value	0.004
K-S test k statistic	0.097
Kuiper Test p value	0.042
Kuiper Test v statistic	0.098

Rora Med

Cross correlation Coefficient	0.569
Likeness	0.695
Similarity	0.929
K-S p value	0.000
K-S test k statistic	0.196
Kuiper Test p value	0.000
Kuiper Test v statistic	0.199