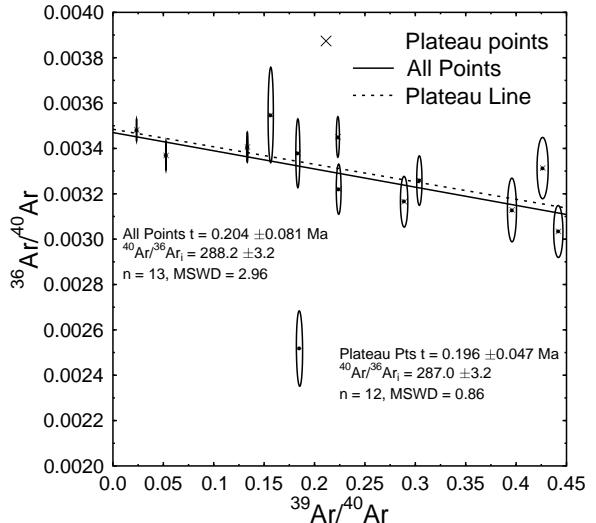
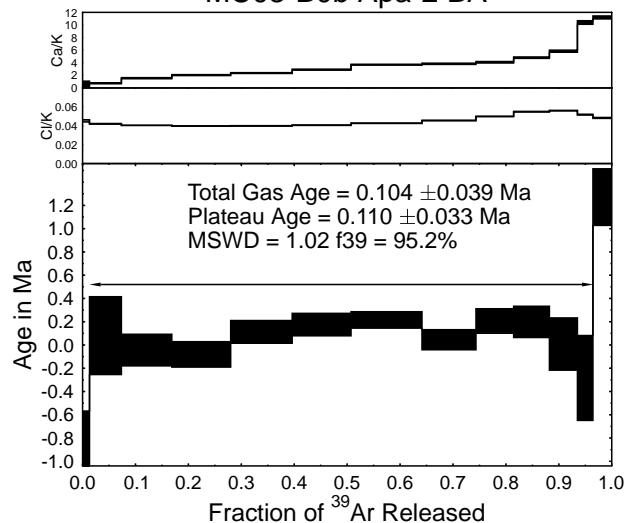
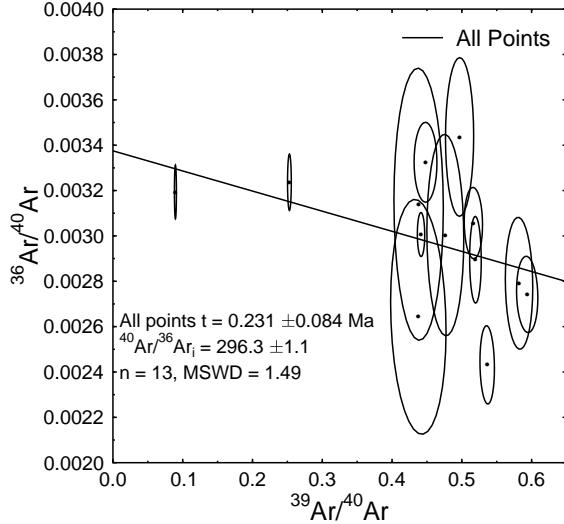
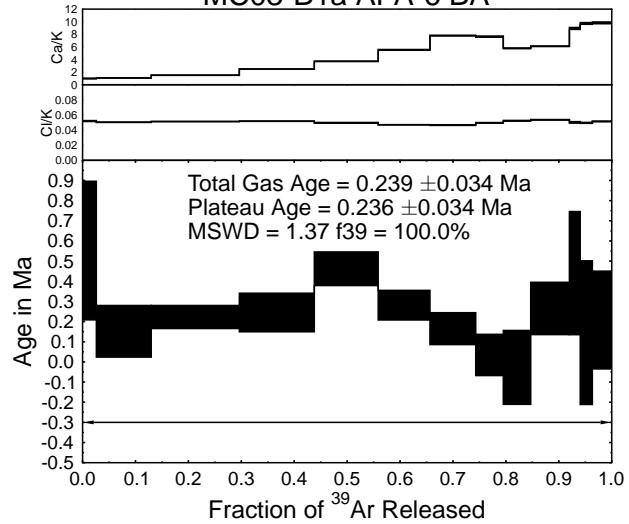


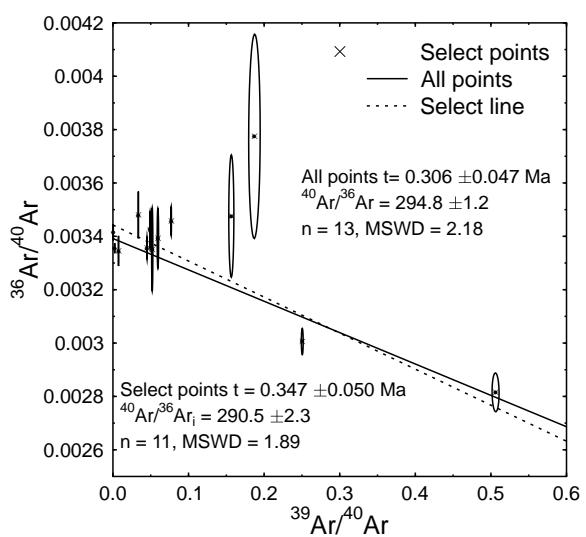
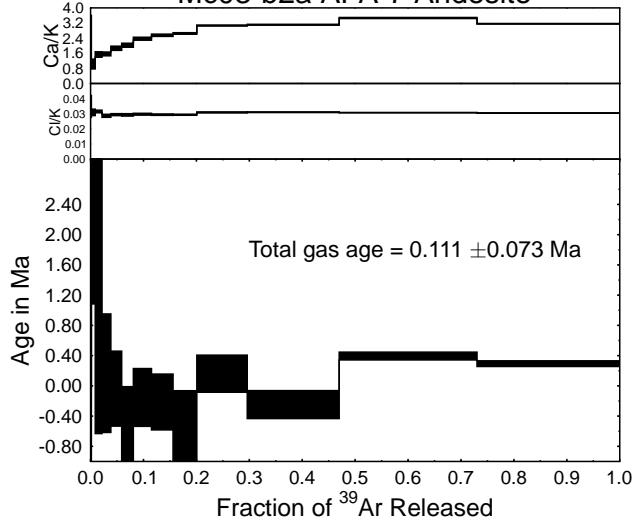
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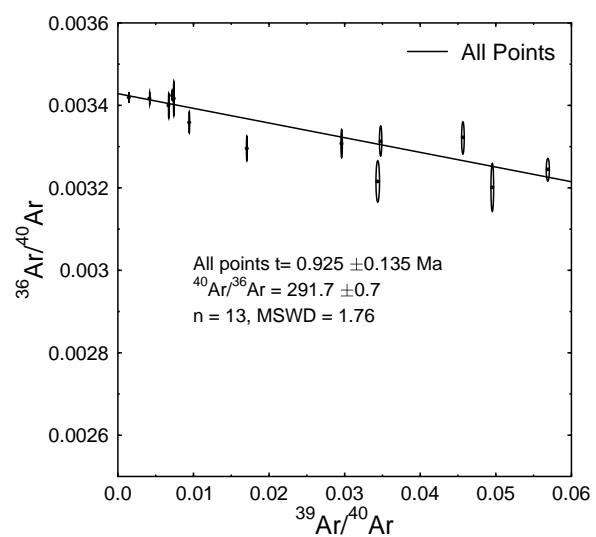
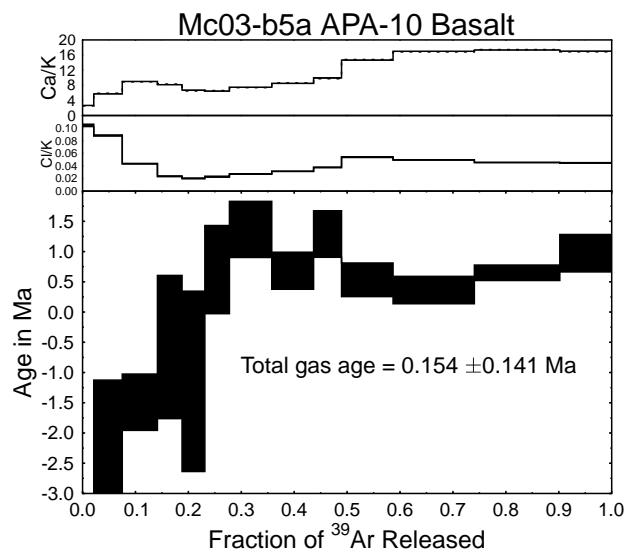
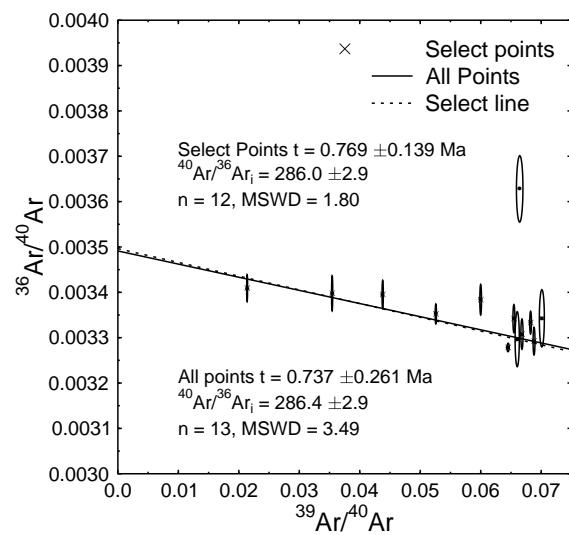
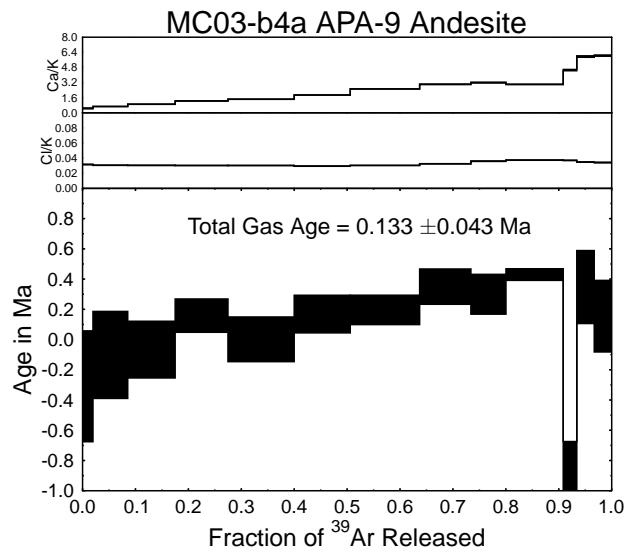
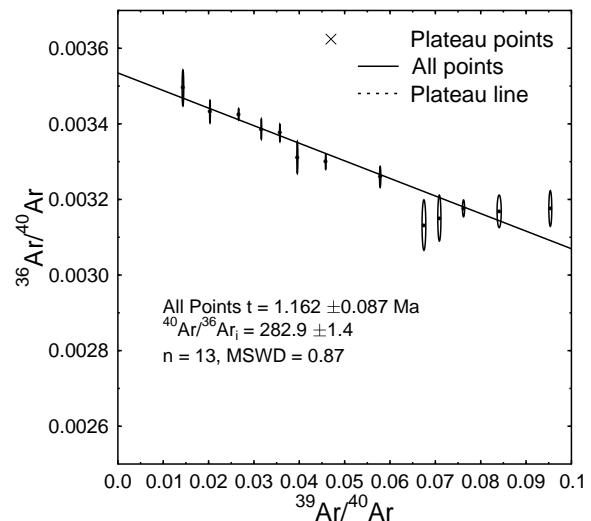
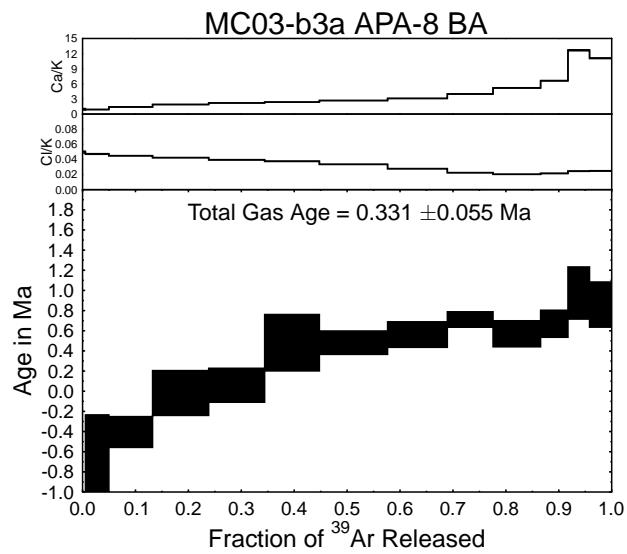


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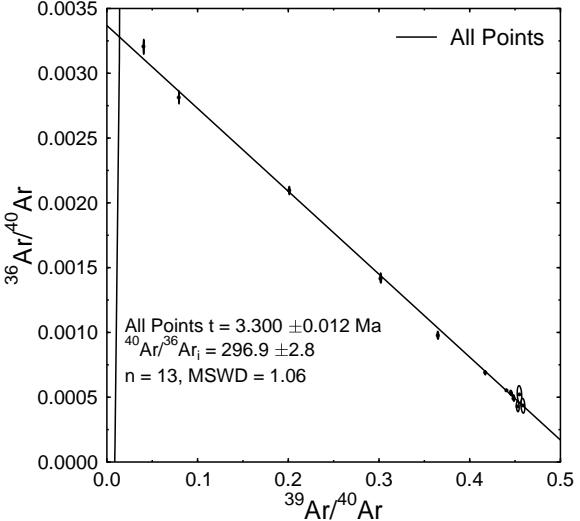
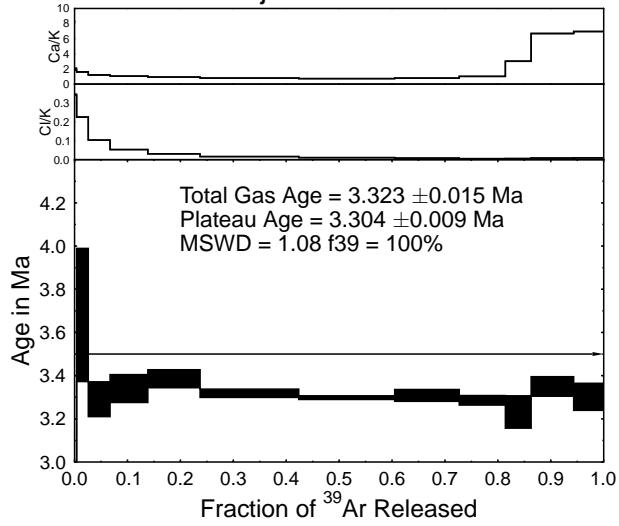


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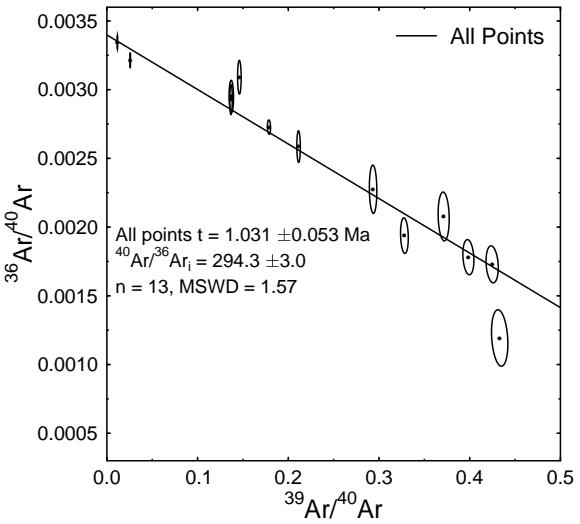
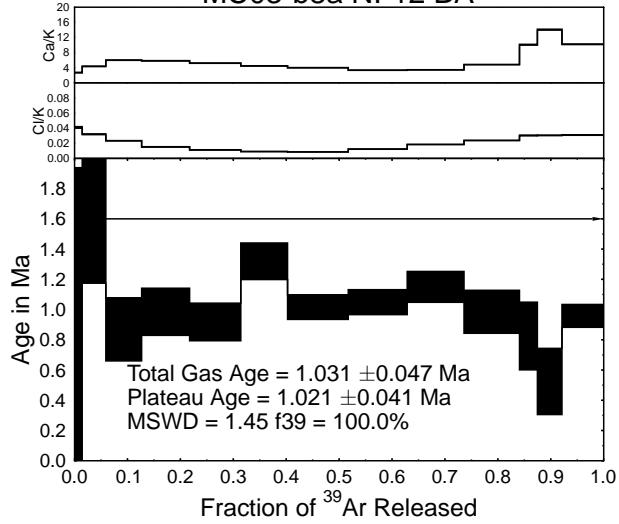




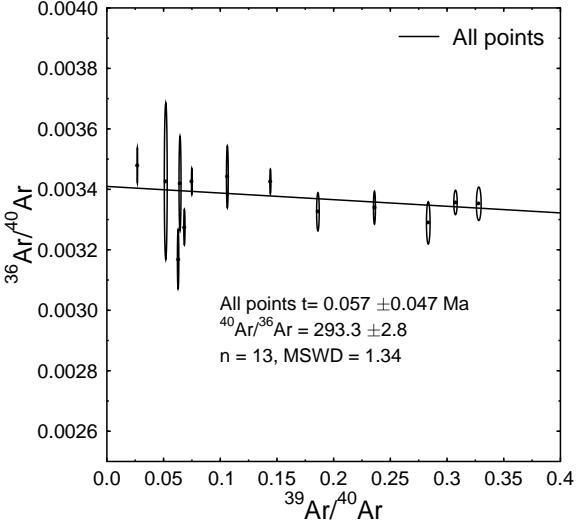
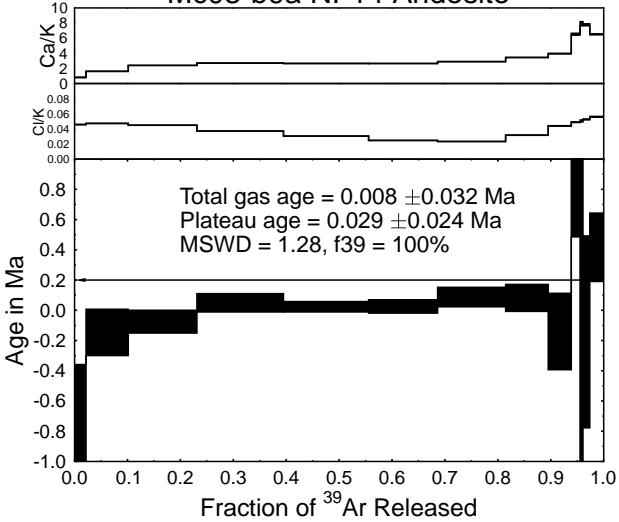
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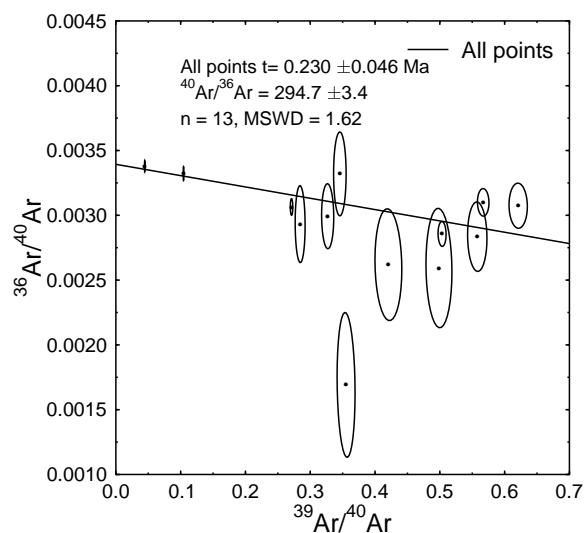
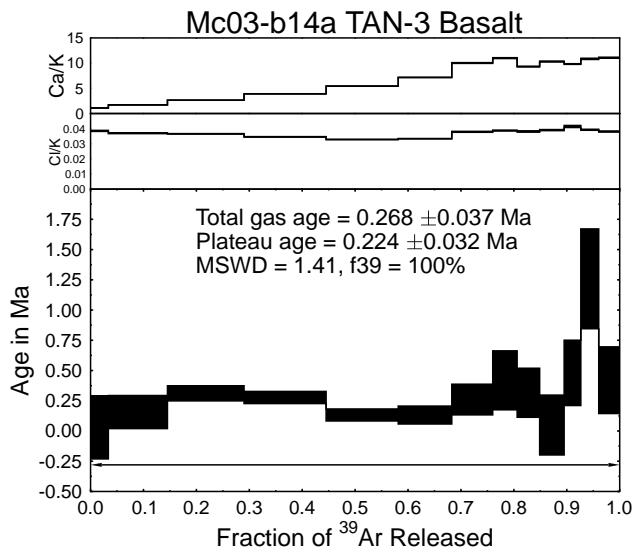
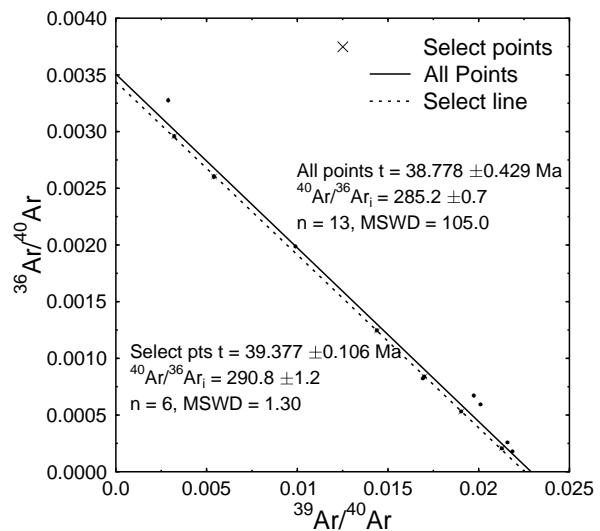
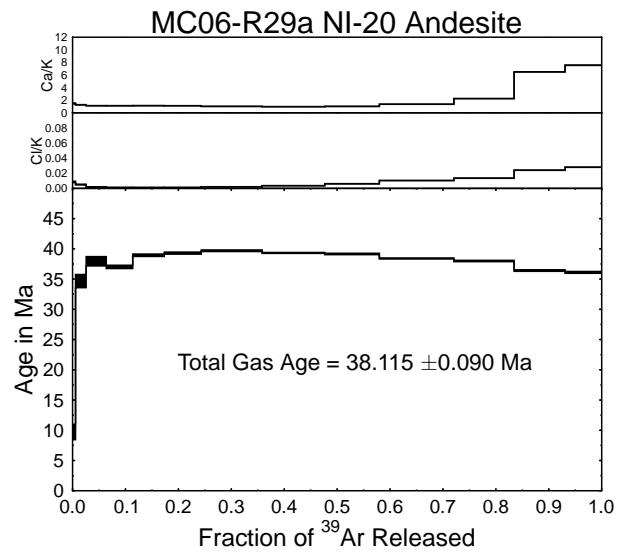
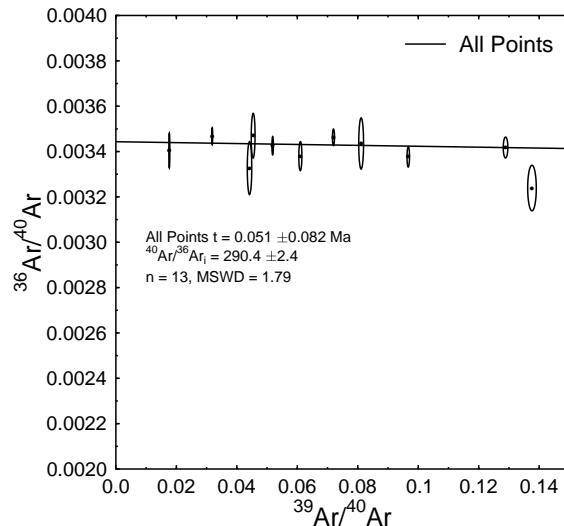
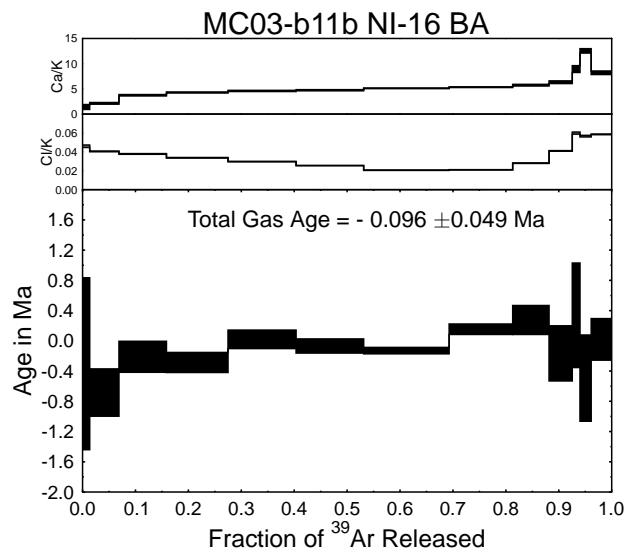


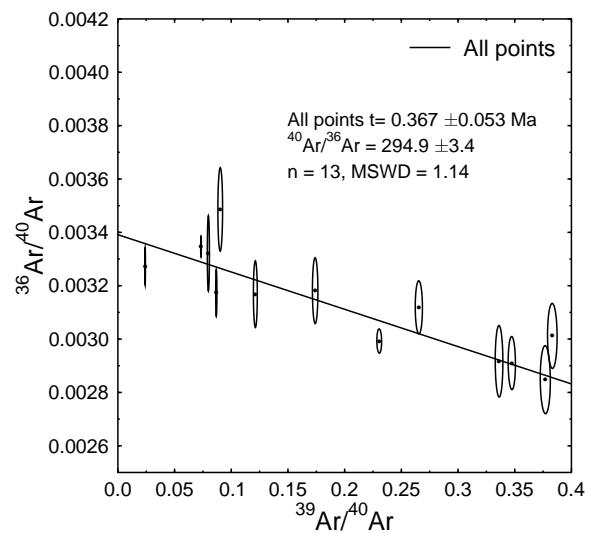
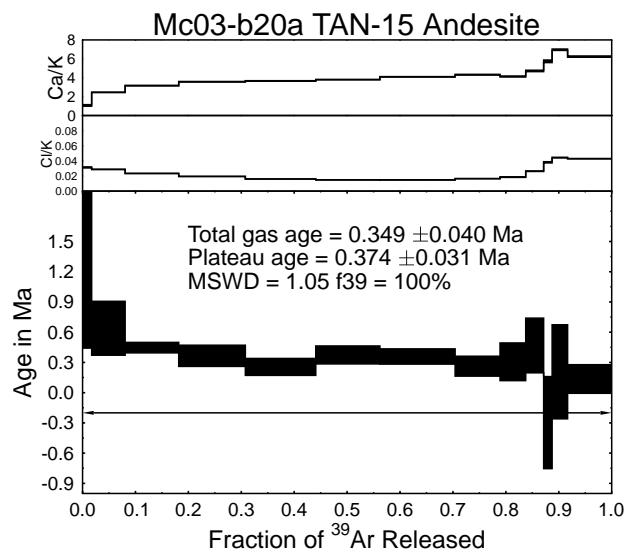
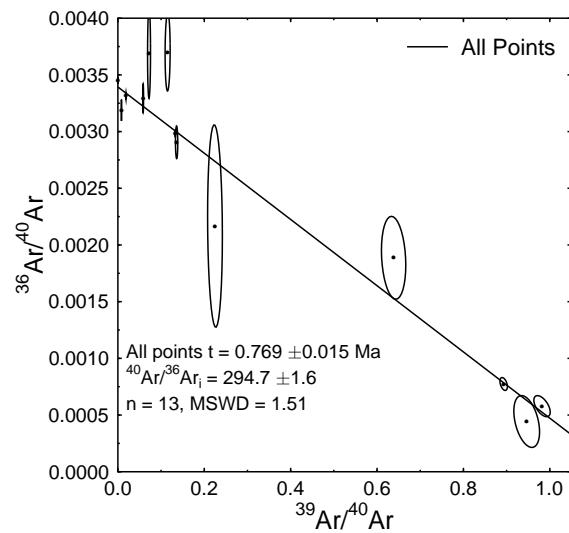
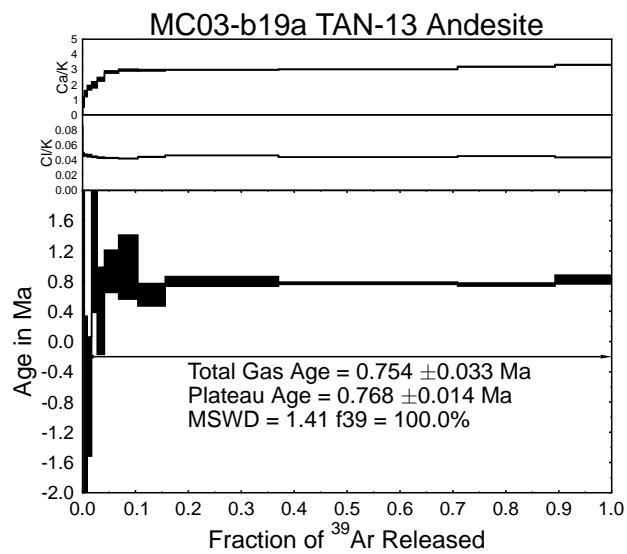
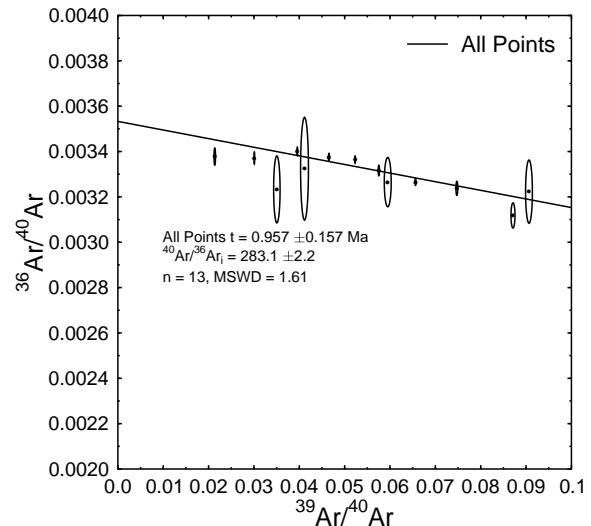
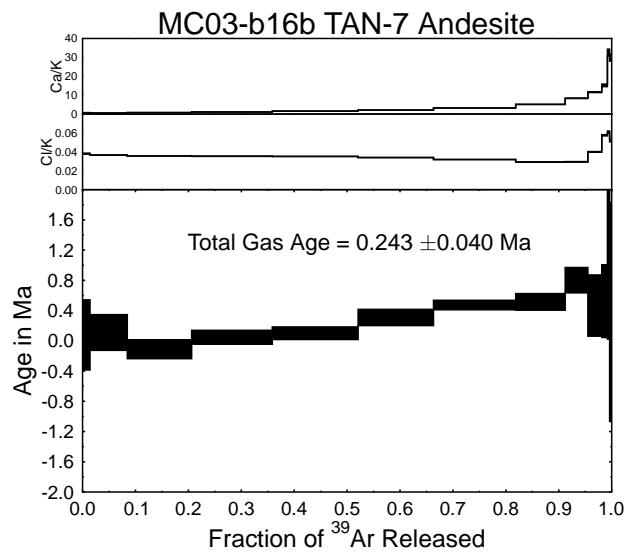
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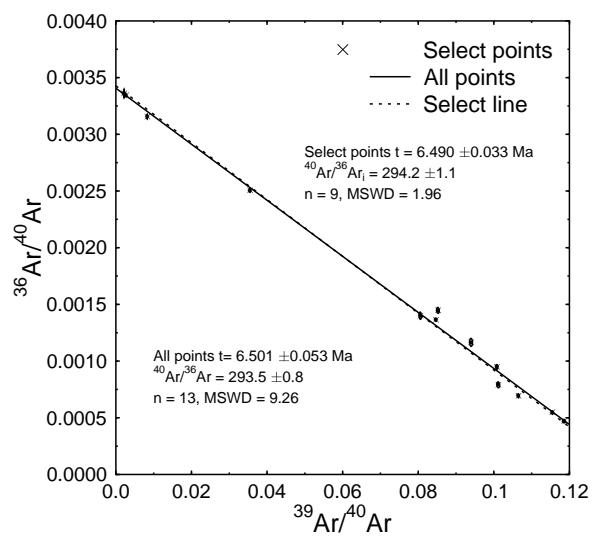
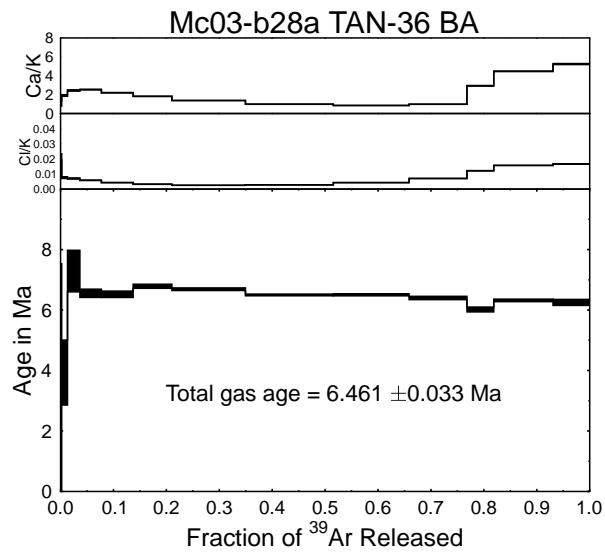
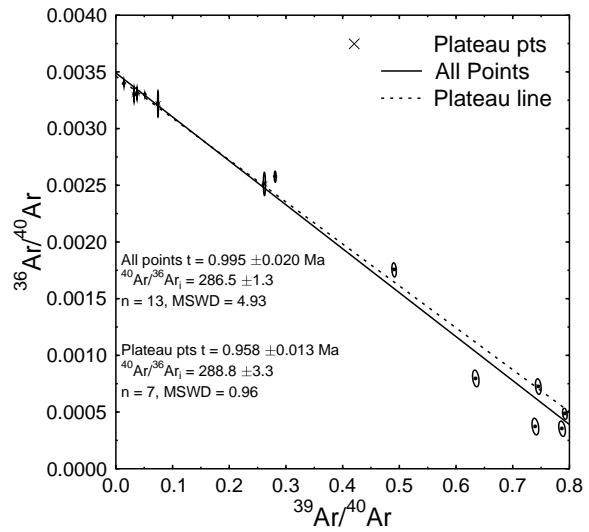
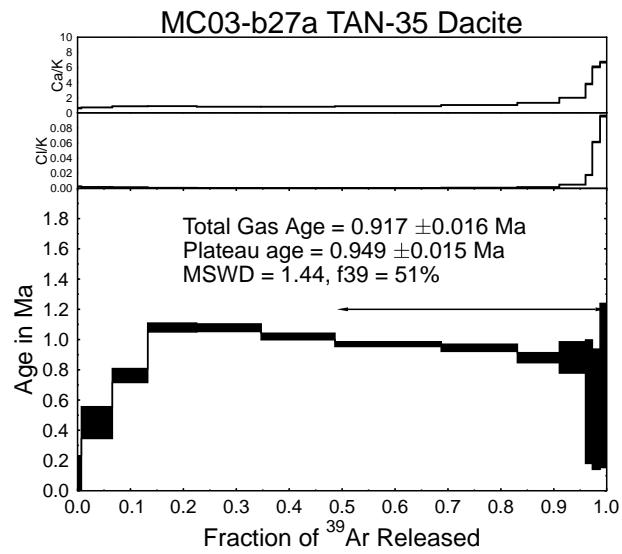
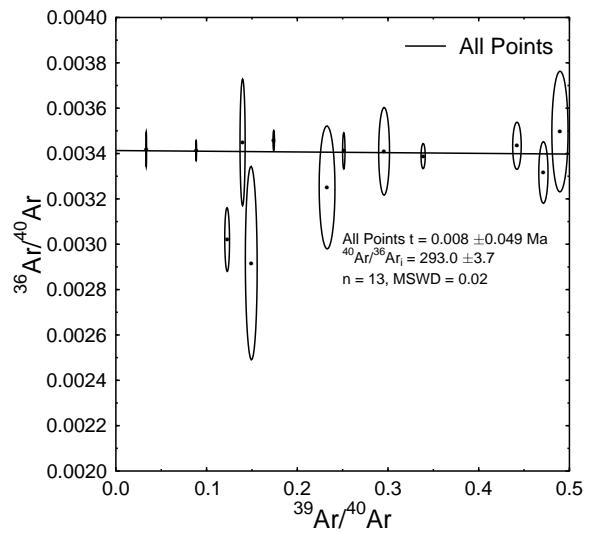
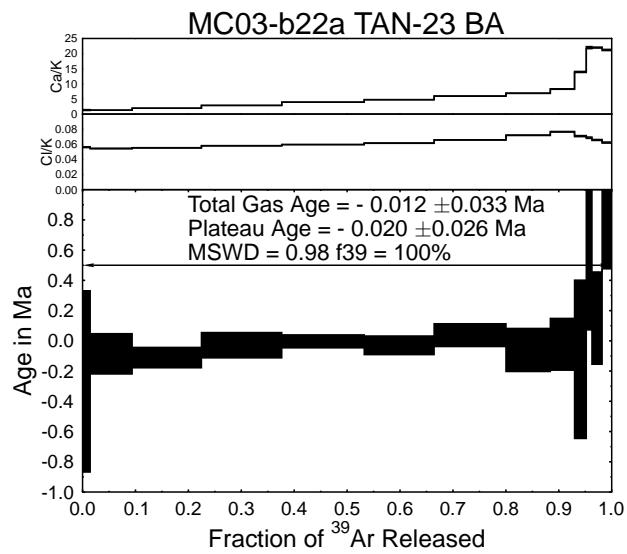


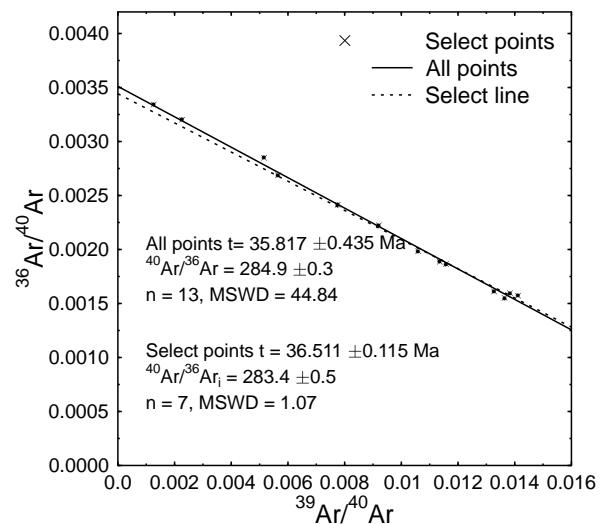
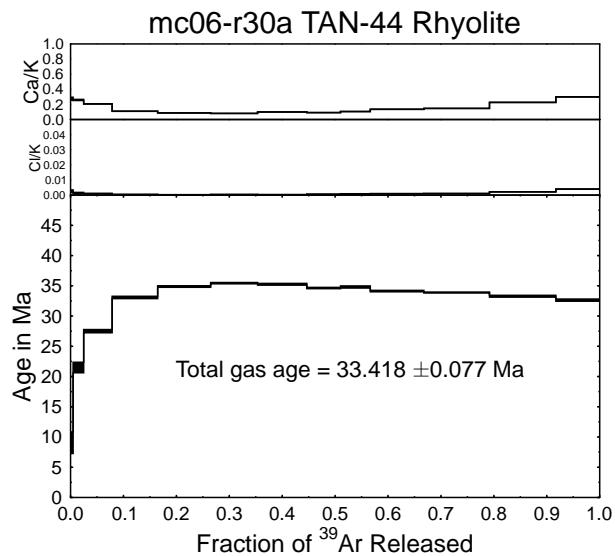
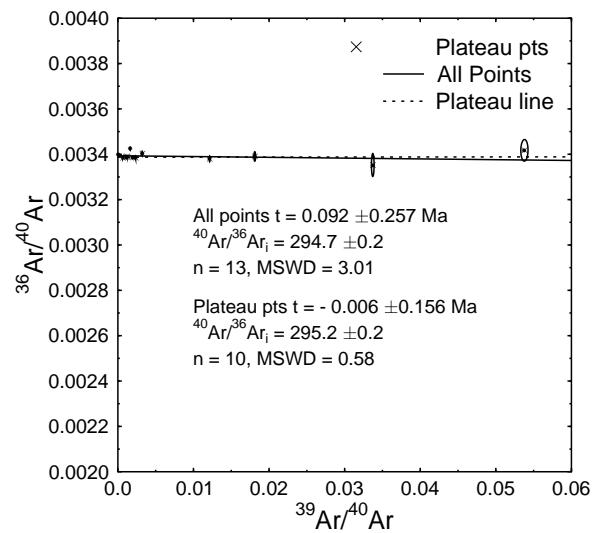
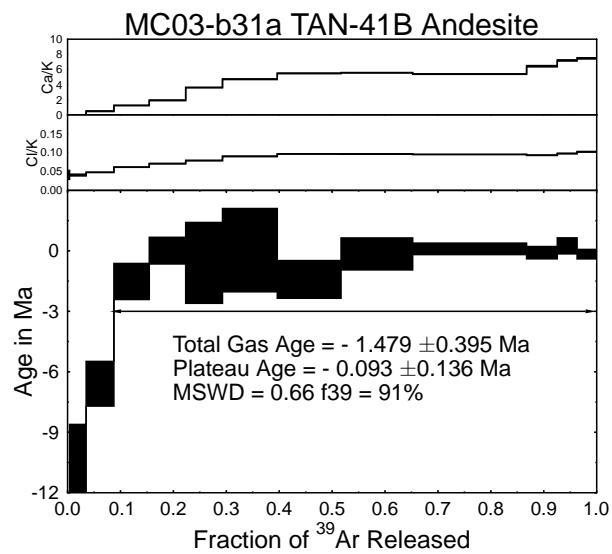
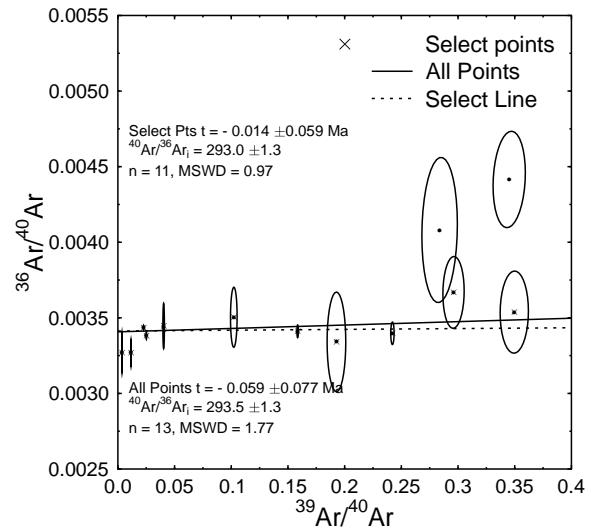
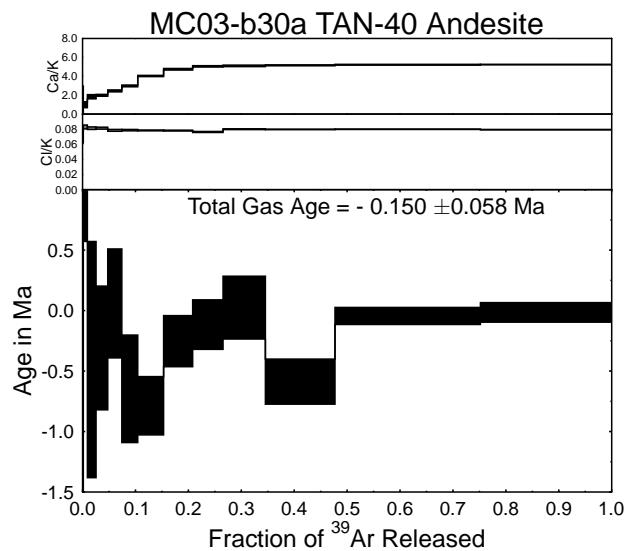
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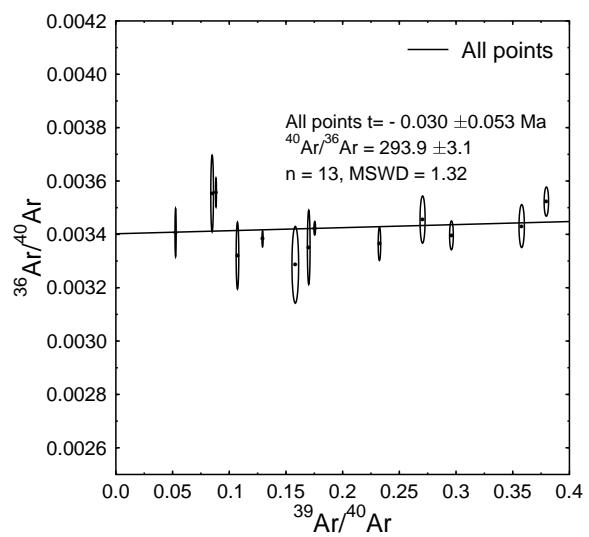
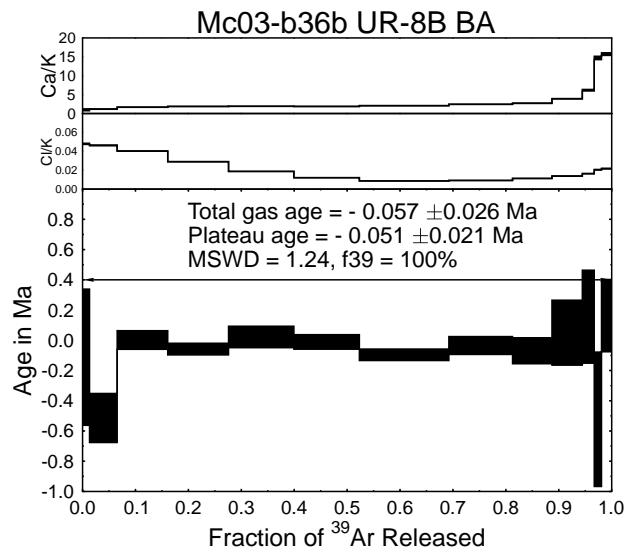
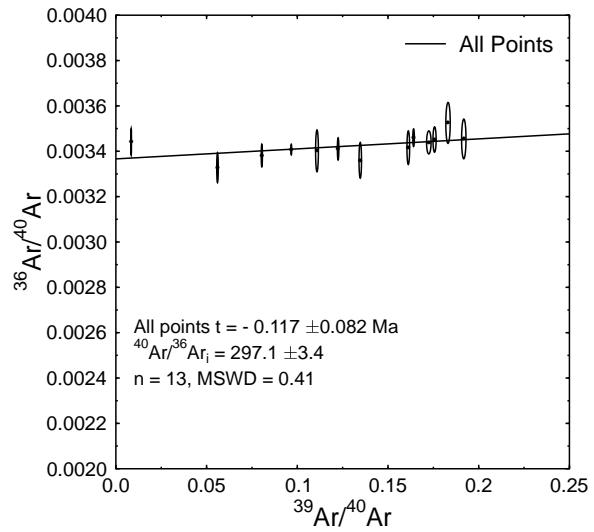
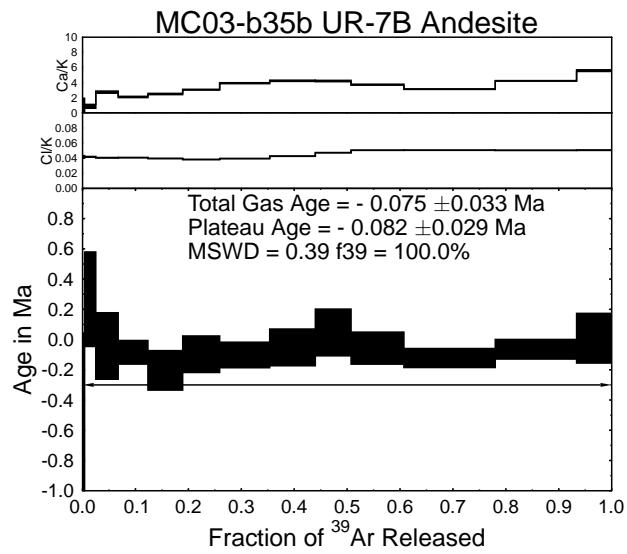
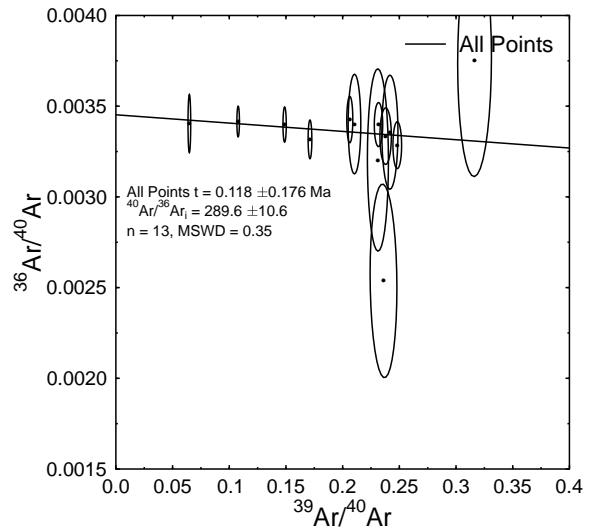
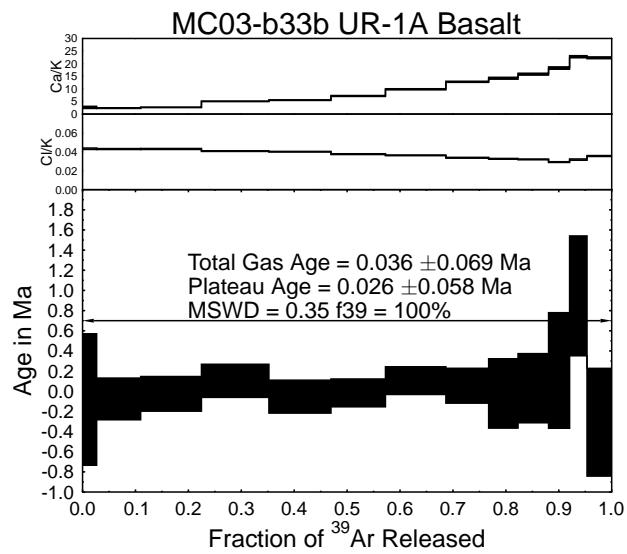


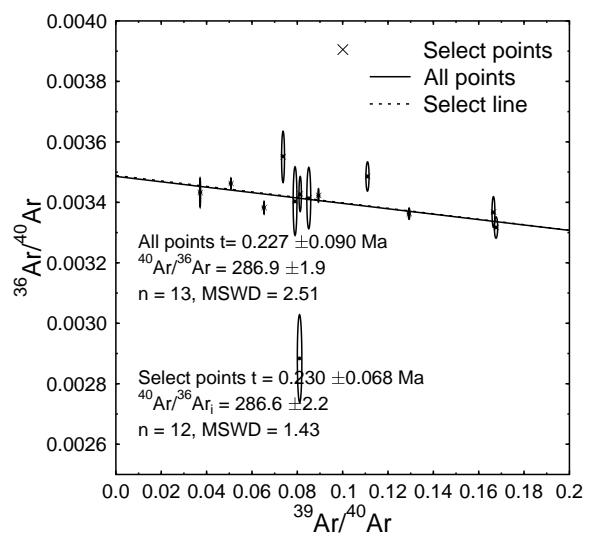
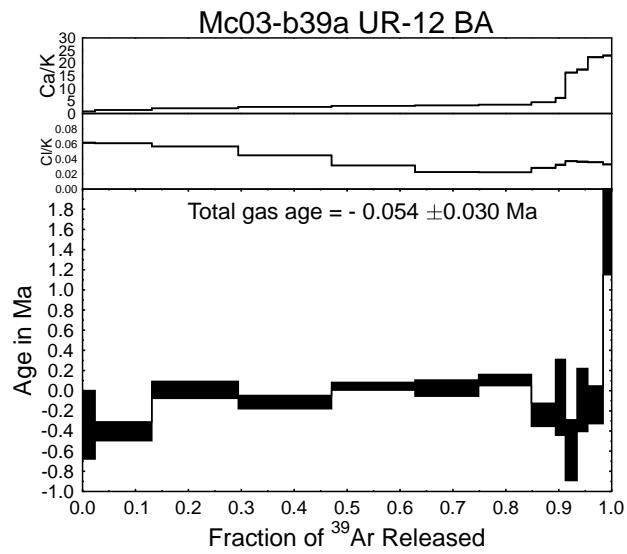
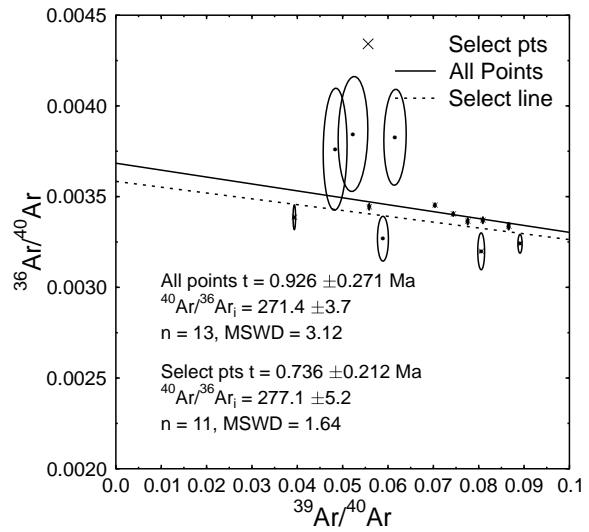
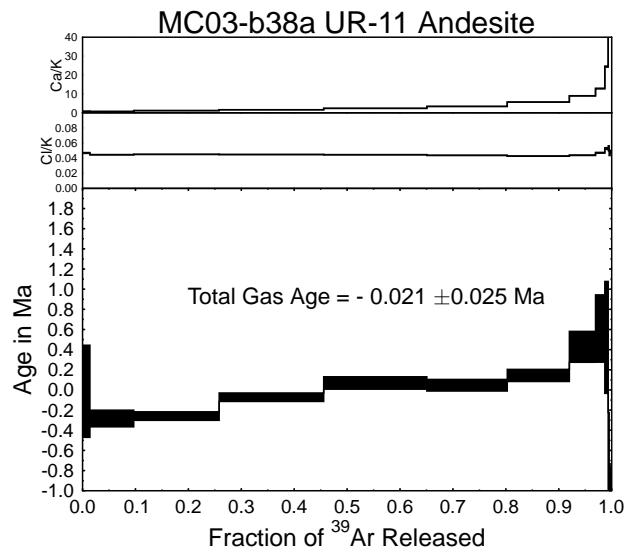
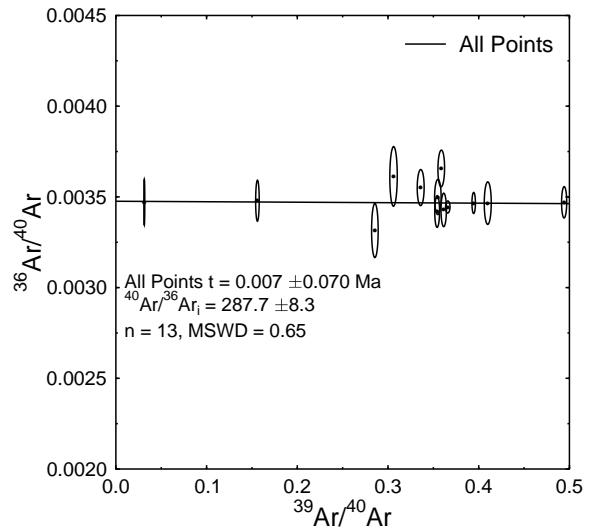
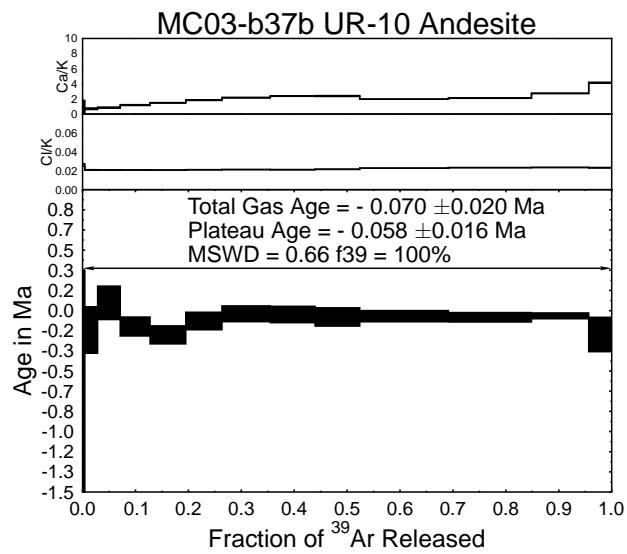


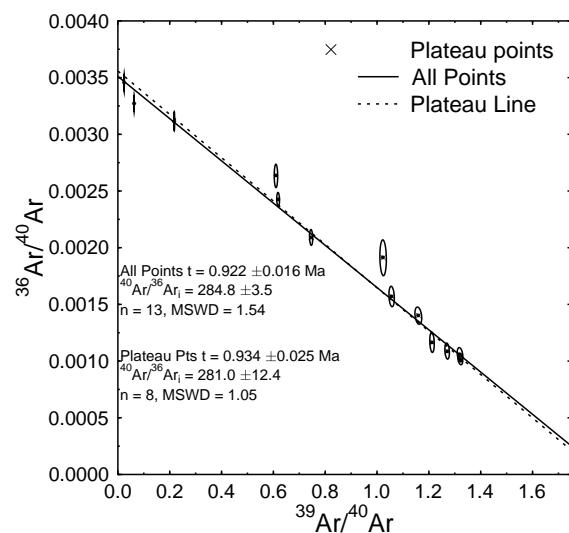
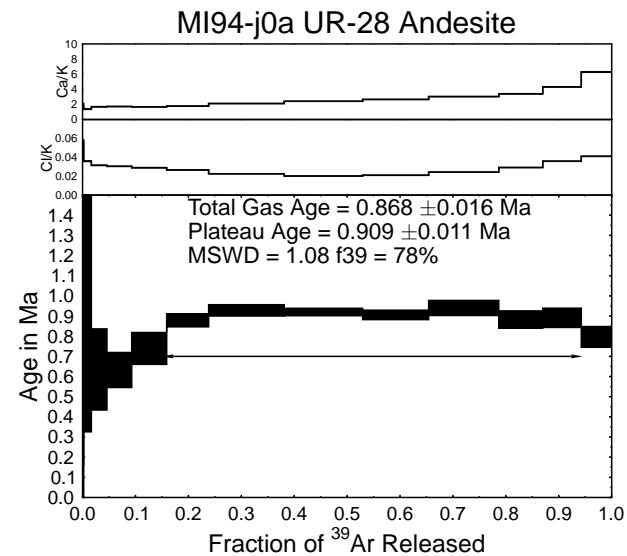
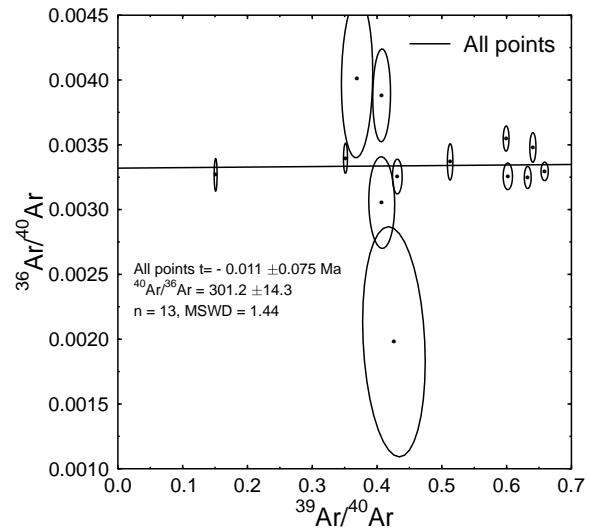
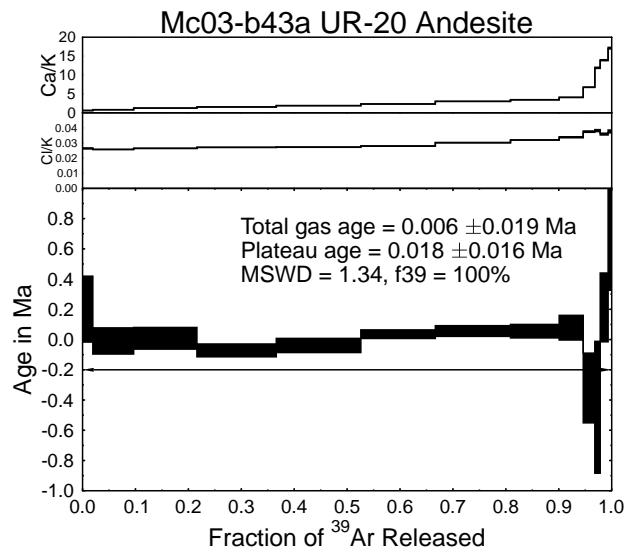
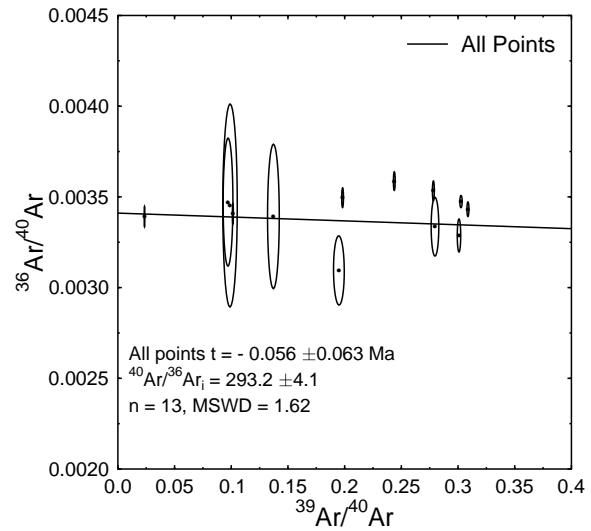
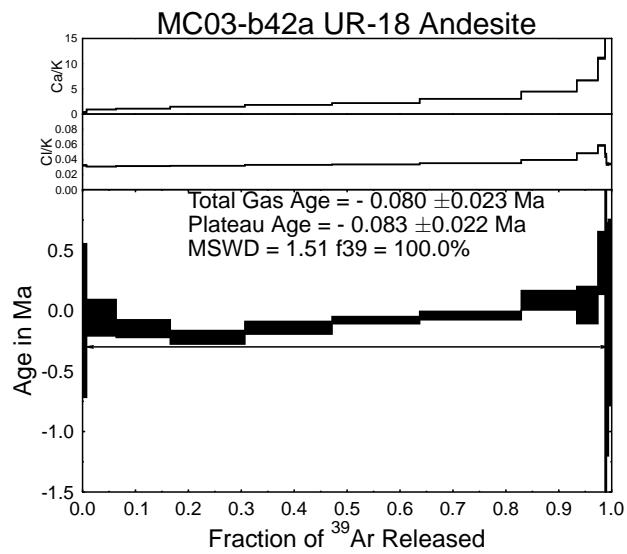


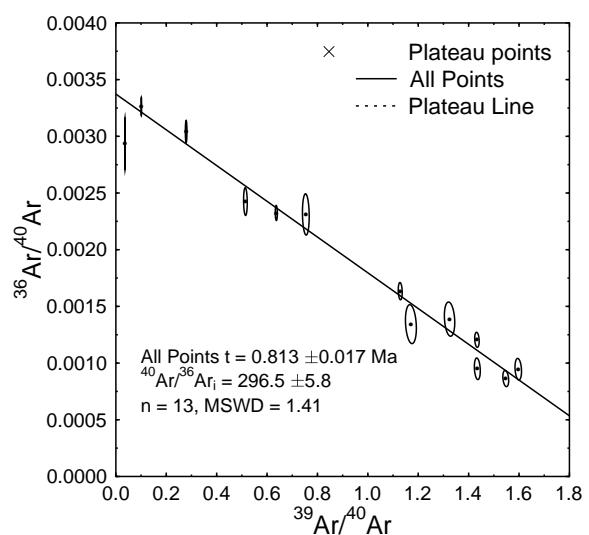
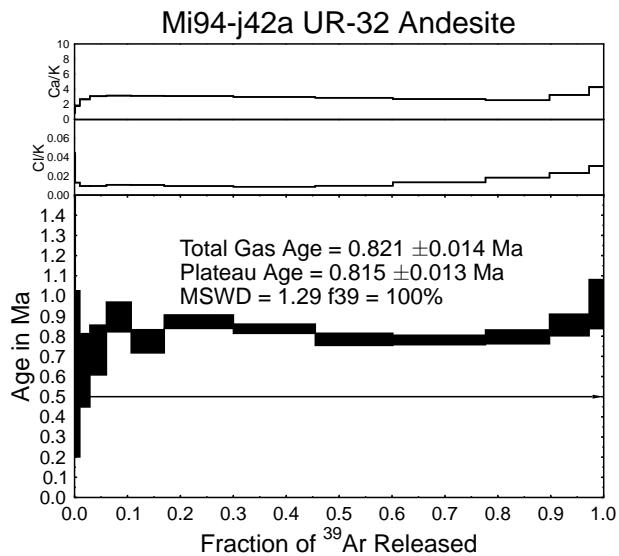
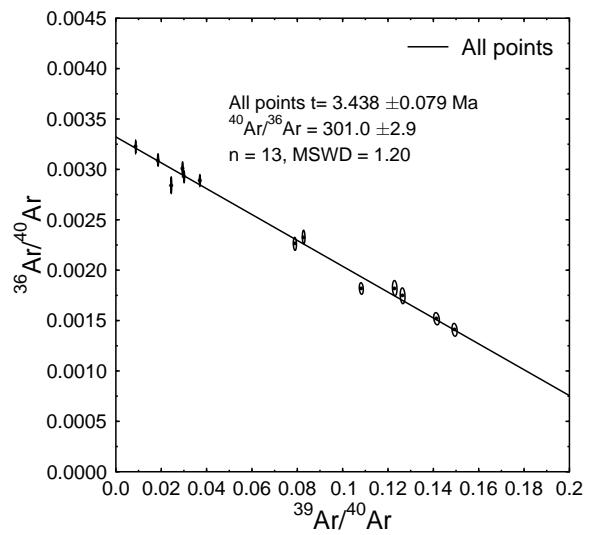
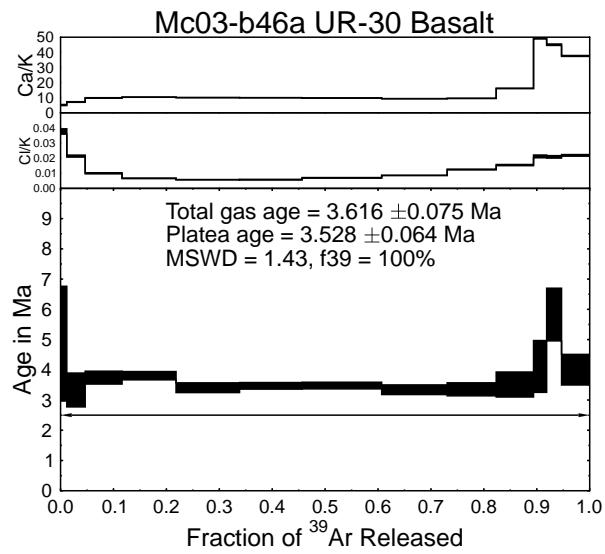
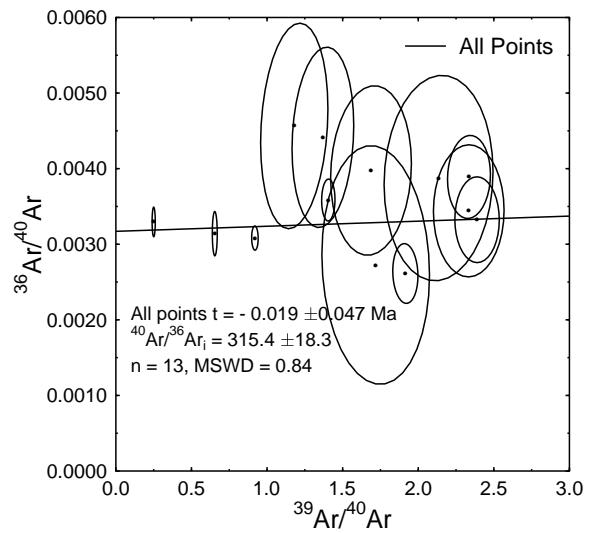
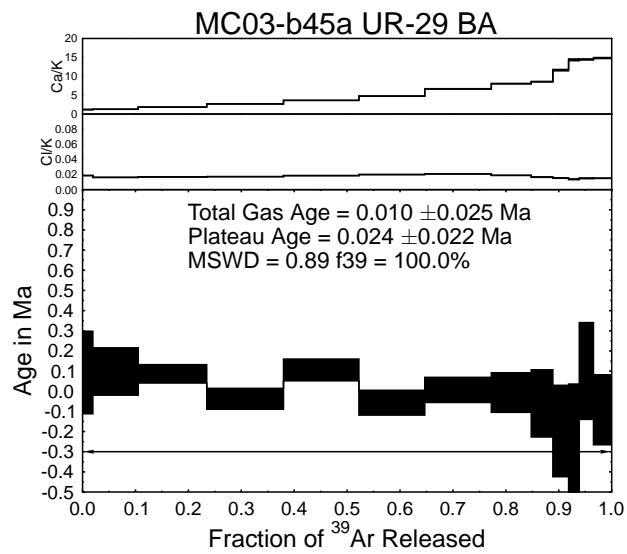


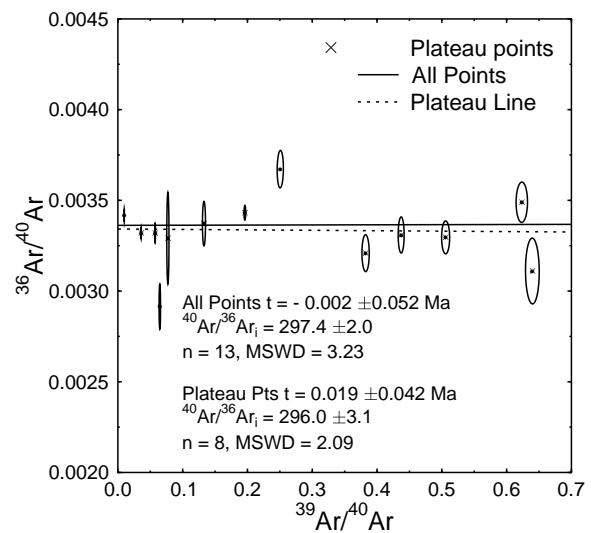
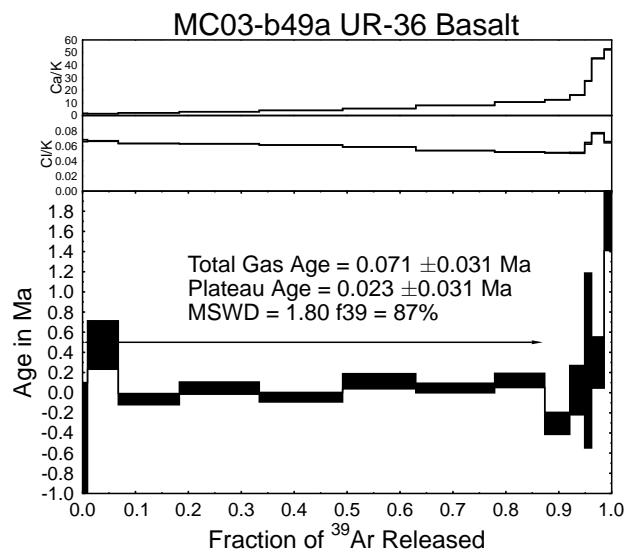
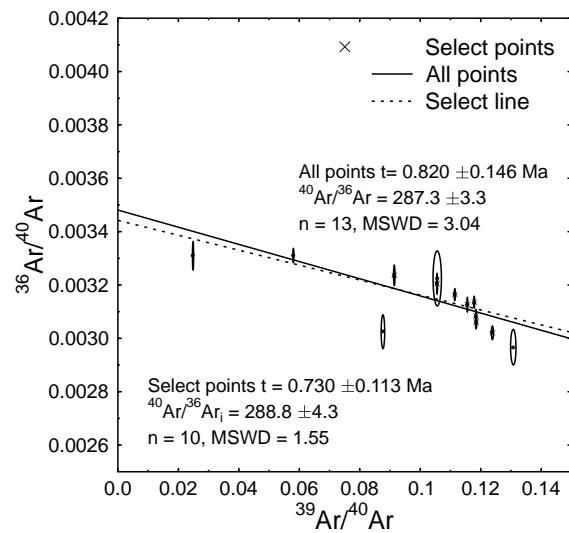
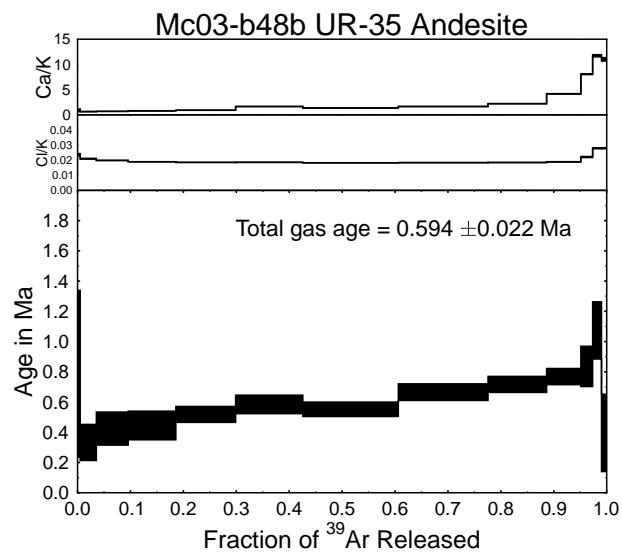
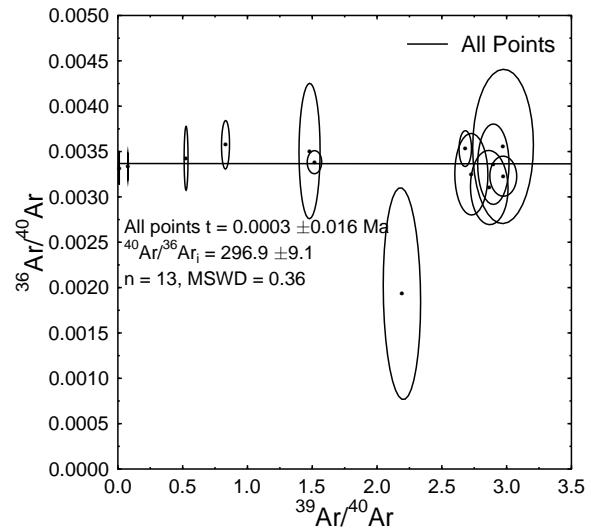
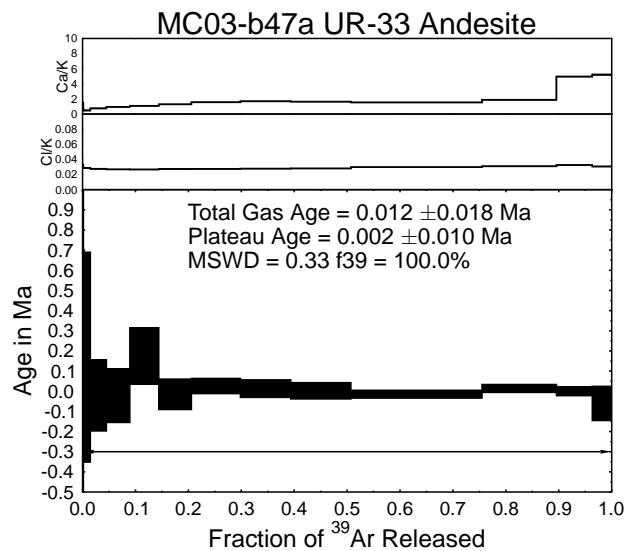


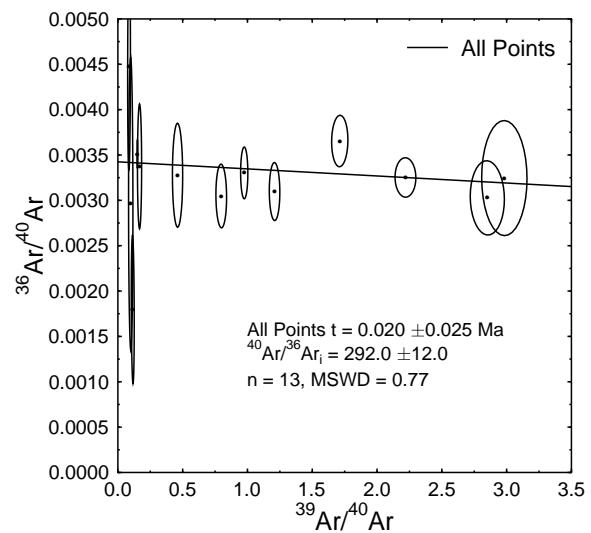
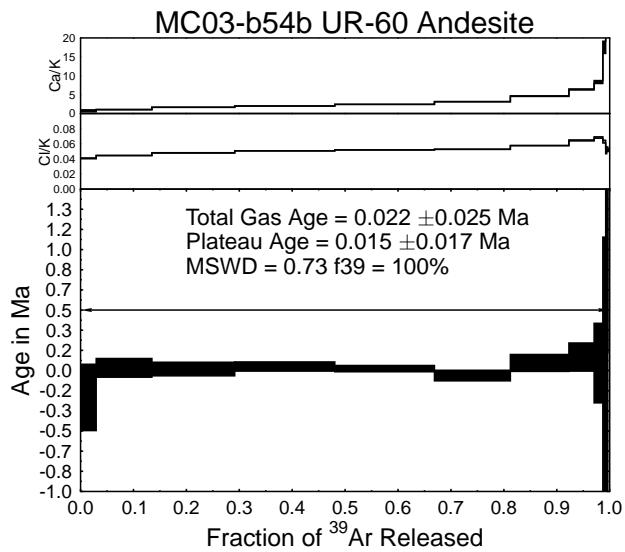
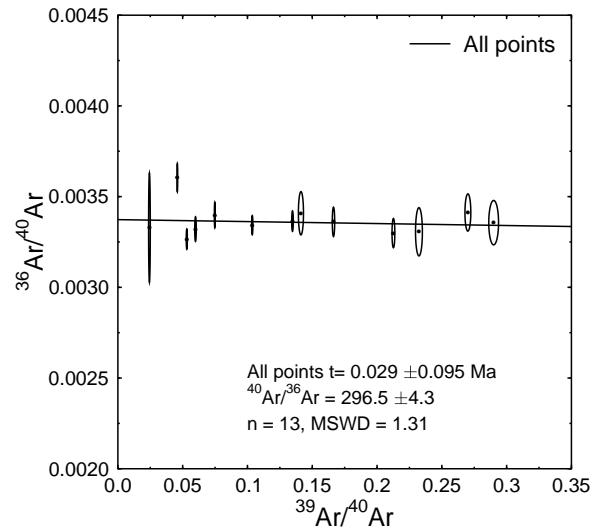
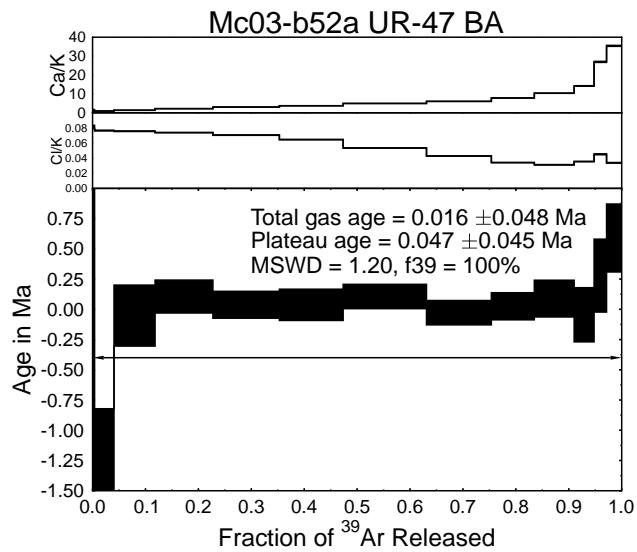
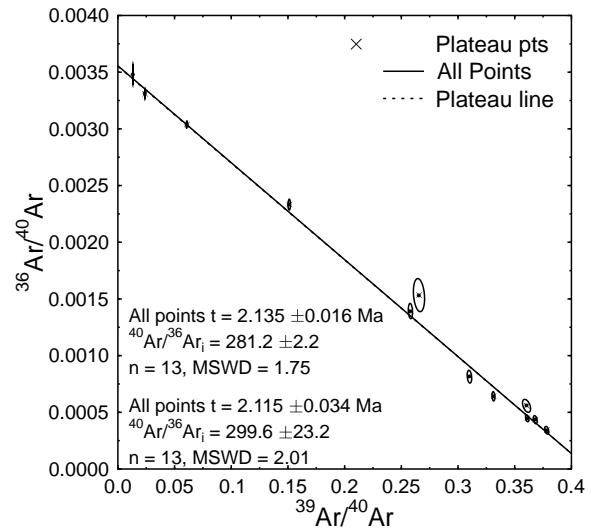
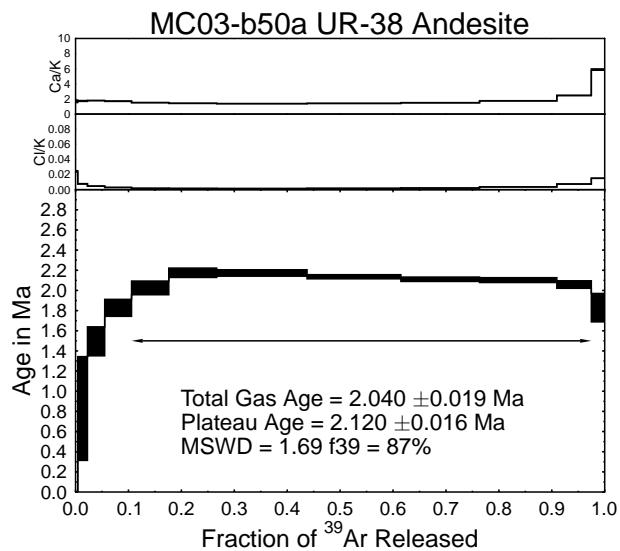


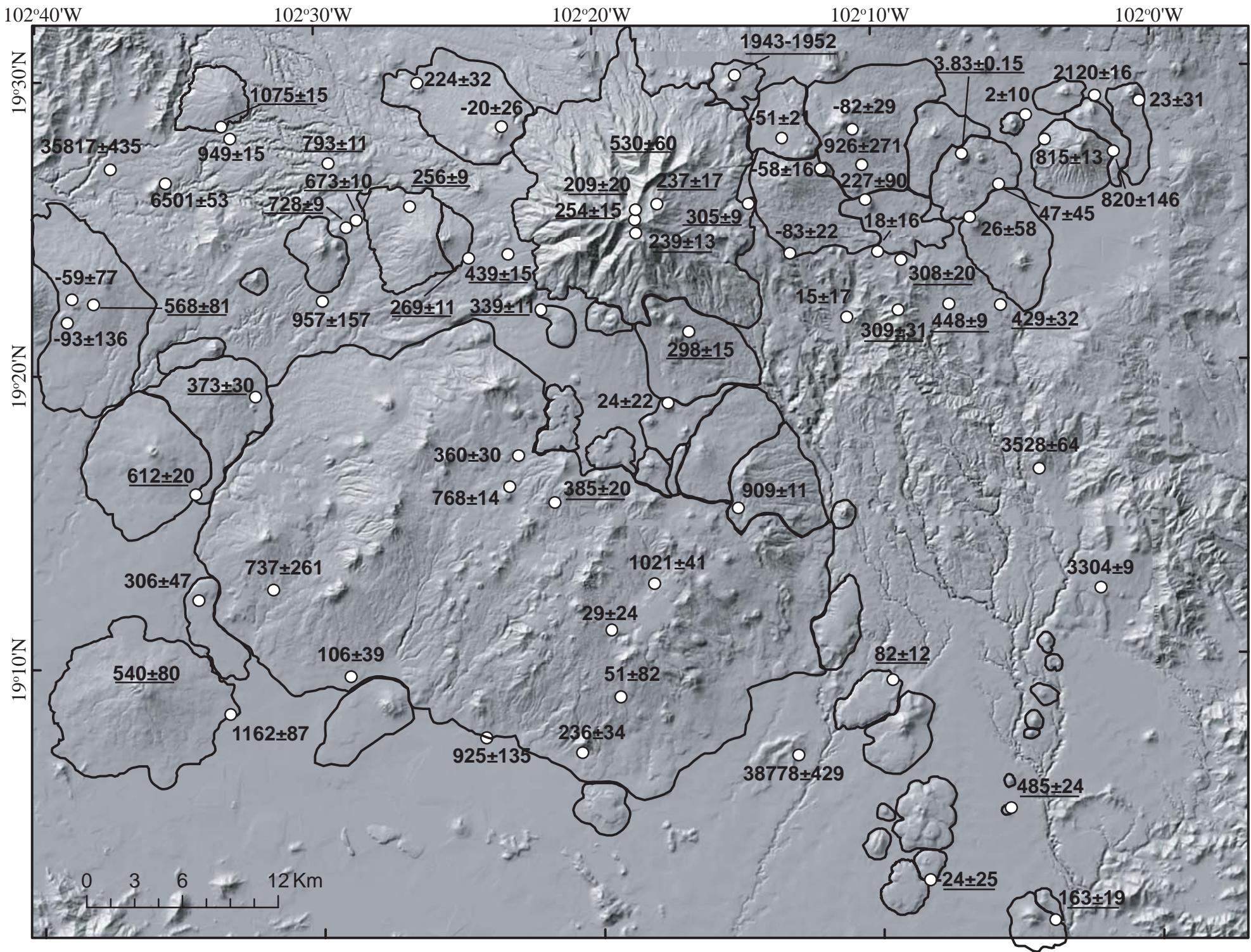












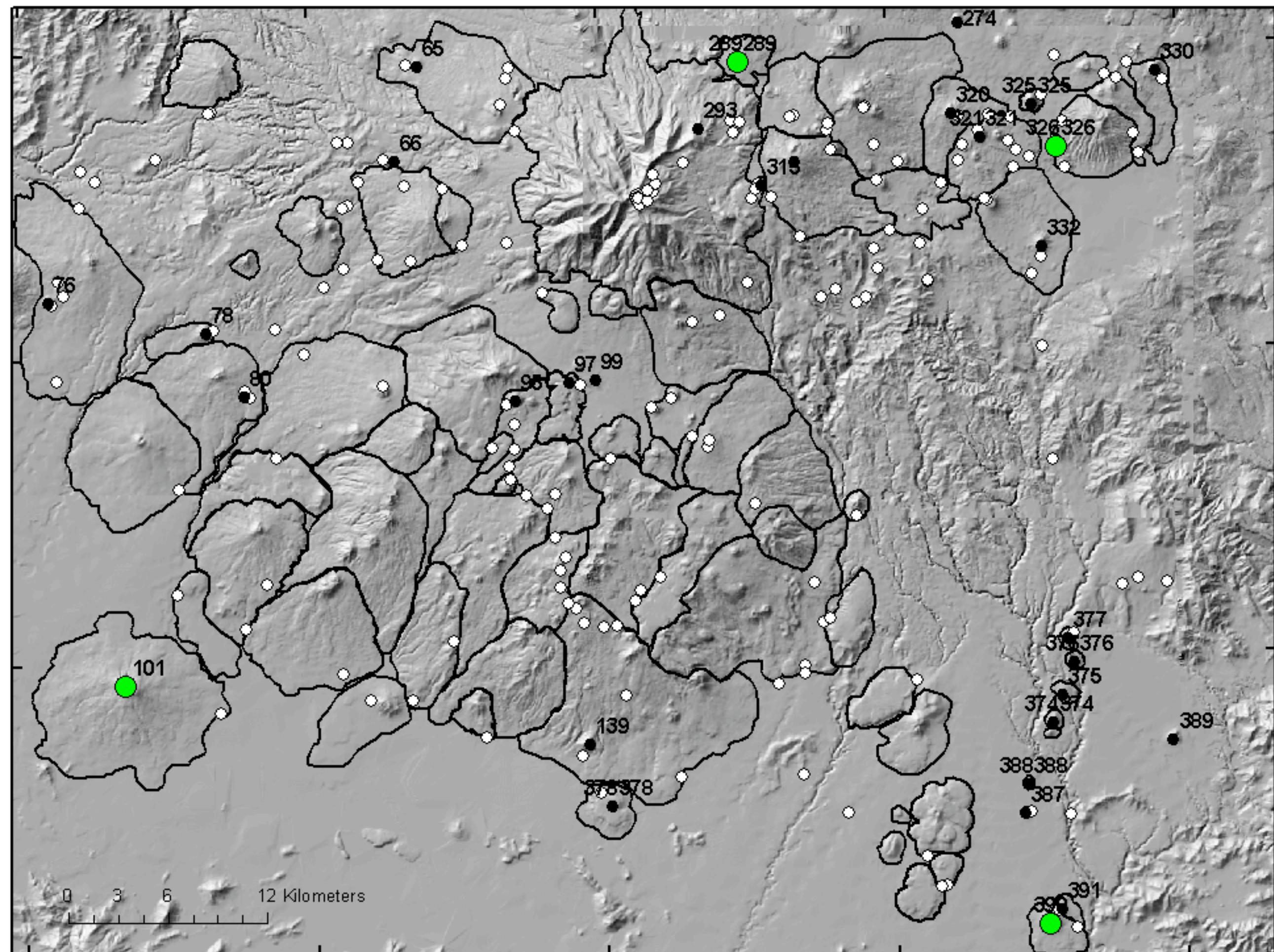
102°40'0"W

102°30'W

102°20'0"W

102°10'0"W

102°0'0"W



## Data Repository Figure Captions

**Figure 1.** Total gas and plateau age spectra (left column) and inverse isochron (right column) for all dates samples. All errors are reported at the 1-sigma level. Samples are listed in alphabetical/numerical order.

**Figure 2.** Digital elevation model of the Tancítaro-Nueva Italia region. Location of all samples for which dates are available (compiled in Table 1). White dots show dated samples by the  $^{40}\text{Ar}/^{39}\text{Ar}$  method from this study. Ages in k.y. ( $\pm 1\sigma$ ) are shown in black.

**Figure 3.** Digital elevation model of the Tancítaro volcanic field. Location of cinder cone samples from Hasenaka (1994). White dots are sample locations, whereas black dots are analyzed samples (Data Repository Table DR-6). Green dots denote samples taken from shields.

**Table DR-1 Major Elements for samples <1.2 Ma**

SAMPLE	Latitude (N)	Longitude (W)	volcano type	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO <sub>t</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI	TOTAL
Ni-15	19°11.08	102°19.58	FF-lava	51.6	1.16	17.2	7.99	0.14	8.58	8.92	3.28	0.84	0.24	-0.13	99.1
TAN-11	19°15.44	102°21.64	cone-lava	51.6	1.57	17.1	9.02	0.15	6.76	8.01	4.20	1.04	0.51	-0.06	99.9
Ni-18	19°01.02	102°03.09	cone-lava	52.1	1.03	16.2	7.57	0.13	8.55	9.36	3.31	1.36	0.39	0.61	99.2
UR-46	19°26.80	102°05.80	cone-bomb	52.2	0.80	16.7	7.39	0.13	9.38	9.26	3.37	0.56	0.14	-0.16	100.1
UR-36	19°28.75	102°00.45	cone-bomb	52.3	0.96	17.1	7.76	0.13	8.52	8.70	3.52	0.79	0.18	-0.15	100.0
UR-1A	19°24.86	102°06.56	cone-bomb	52.3	0.92	17.3	7.75	0.14	8.77	8.77	3.32	0.59	0.17	0.09	99.9
Ni-4	19°01.53	102°04.48	cone-bomb	52.3	1.08	16.9	7.54	0.13	7.80	9.30	3.23	1.30	0.36	0.57	98.8
UR-26	19°16.92	102°16.35	shield	52.6	0.92	16.6	7.47	0.13	9.39	8.41	3.49	0.73	0.21	-0.19	100.3
APA-3	19°08.76	102°28.10	cone-lava	52.6	1.03	17.6	8.09	0.15	6.96	8.82	3.25	1.23	0.26	0.03	100.3
APA-10	19°07.50	102°24.12	shield	52.7	0.77	16.7	7.47	0.13	9.63	8.63	3.33	0.53	0.14	0.11	99.4
APA-14	19°11.68	102°20.98	cone-bomb	52.7	1.14	17.5	7.89	0.14	7.46	8.60	3.60	0.71	0.24	0.4	99.4
NI-22	19°06.10	102°17.44	FF-lava	52.7	0.83	17.2	7.39	0.13	8.59	8.88	3.56	0.57	0.16	0.01	99.3
Ni-5	19°04.78	102°05.37	cone-bomb	53.2	1.28	15.2	7.00	0.12	7.59	8.84	3.19	2.88	0.68	0.41	99.6
APA-5	19°10.66	102°25.18	FF-lava	53.2	0.80	17.1	6.93	0.12	9.02	8.28	3.56	0.83	0.17	0.32	100.1
UR-47	19°25.93	102°05.62	FF-lava	53.2	0.93	17.3	7.52	0.13	7.69	8.68	3.59	0.75	0.17	-0.07	98.8
UR-6	19°27.24	102°12.07	cone-bomb	53.5	0.91	16.9	7.46	0.13	8.62	8.27	3.37	0.67	0.19	-0.05	99.6
UR-29	19°18.53	102°17.59	cone-bomb	53.7	1.03	17.1	7.10	0.12	8.57	7.61	3.56	1.01	0.24	0.23	100.5
TAN-14	19°16.36	102°23.22	FF-lava	53.7	0.84	17.1	6.95	0.12	8.49	8.12	3.80	0.66	0.16	0.26	99.9
NI-13	19°12.23	102°18.71	FF-lava	53.7	0.87	16.7	7.20	0.12	8.98	7.99	3.33	0.89	0.18	0.08	99.9
TAN-48	19°19.11	102°27.51	cone-bomb	53.9	1.13	17.1	7.44	0.13	7.04	8.36	3.76	0.89	0.28	0.01	99.2
UR-12	19°25.57	102°10.36	cone-lava	54.0	0.95	16.1	7.19	0.13	8.05	8.10	3.72	1.38	0.38	-0.05	99.0
TAN-47	19°20.23	102°30.17	FF-lava	54.0	1.06	17.1	7.42	0.13	7.13	8.29	3.69	0.87	0.28	0.12	99.7
NI-27	19°14.59	102°11.22	cone-bomb	54.0	0.81	17.6	7.08	0.12	7.68	8.23	3.59	0.65	0.15	0.32	99.3
TAN-46	19°21.09	102°33.41	cone-bomb	54.2	1.04	17.5	6.93	0.13	6.43	9.26	3.37	0.92	0.21	0.56	99.4
TAN-9	19°18.74	102°32.14	cone-bomb	54.3	0.83	16.9	6.92	0.12	8.10	8.12	3.65	0.91	0.18	0.29	100.2
TAN-3	19°29.58	102°26.56	cone-bomb	54.4	0.99	17.2	6.70	0.13	7.62	8.11	3.76	0.84	0.21	0.31	99.3
TAN-23	19°28.30	102°23.30	cone-lava	54.5	1.05	18.2	7.36	0.13	5.03	8.82	3.73	0.98	0.23	0.06	99.5
TAN-19	19°18.39	102°23.28	cone-lava	54.5	0.83	17.2	6.82	0.12	7.92	7.98	3.68	0.77	0.18	-0.10	98.7
TAN-45	19°16.75	102°31.24	FF-lava	54.6	1.00	17.5	7.09	0.14	6.98	7.84	3.77	0.74	0.30	0.96	99.2
Ni-12	19°12.64	102°18.03	FF-lava	54.8	1.00	18.2	7.46	0.13	5.64	8.13	3.49	0.96	0.23	1.04	100.0
TAN-18	19°17.73	102°23.00	FF-lava	55.0	0.82	17.0	5.73	0.12	8.70	8.32	3.46	0.68	0.12	-0.02	99.1
UR-8B	19°27.69	102°13.32	FF-lava	55.0	1.07	16.1	7.13	0.12	6.52	7.76	4.06	1.66	0.50	-0.02	99.1
NI-29	19°09.16	102°09.24	FF-lava	55.3	1.02	15.8	6.78	0.11	5.34	7.80	4.88	2.28	0.66	0.31	99.0
APA-6	19°06.83	102°20.83	cone-bomb	56.0	0.88	17.6	6.69	0.11	6.35	7.28	3.84	1.07	0.23	0.83	100.1
UR-40	19°29.57	102°04.13	FF-lava	56.0	0.90	17.1	6.70	0.12	6.20	7.72	3.80	1.22	0.24	0.24	99.9
UR-42	19°26.67	102°04.19	cone-bomb	56.0	0.94	18.5	6.85	0.12	4.68	7.60	4.19	0.86	0.24	0.18	99.9
APA-2	19°09.62	102°29.05	shield	56.2	0.93	17.4	6.73	0.12	5.70	7.56	3.77	1.28	0.26	0.31	100.3

Ni-16	19°08.81	102°19.29	FF-lava	56.6	0.80	17.7	6.77	0.12	5.90	7.23	3.74	0.96	0.24	-0.04	99.3
UR-75	19°27.57	102°15.05	cone-bomb	56.6	0.88	17.5	6.69	0.12	5.93	7.09	3.81	1.15	0.27	0.95	99.6
APA-8	19°08.39	102°20.83	shield	56.7	0.93	16.9	6.68	0.12	6.12	7.45	3.61	1.24	0.22	0.36	99.1
UR-2	19°24.94	102°06.64	FF-lava	56.9	0.78	17.7	6.36	0.11	5.87	7.12	3.95	0.97	0.20	0.16	99.9
UR-49	19°27.66	102°06.47	FF-lava	57.2	0.80	17.1	6.30	0.11	6.07	7.29	4.01	0.94	0.20	0.29	100.0
UR-9	19°27.48	102°12.02	FF-lava	57.2	0.89	16.3	6.49	0.11	5.67	7.71	3.84	1.50	0.32	0.39	99.0
NI-21	19°09.13	102°14.03	FF-lava	57.3	0.85	17.3	6.26	0.11	5.83	7.06	3.96	1.10	0.23	0.26	99.1
UR-44	19°26.30	102°05.08	cone-lava	57.7	0.76	17.2	6.17	0.11	5.49	7.20	4.14	1.02	0.21	0.14	98.9
UR-32	19°27.44	102°03.91	shield	57.7	1.05	18.0	6.26	0.11	4.24	6.52	4.05	1.67	0.32	0.35	100.4
TAN-39	19°22.62	102°38.72	shield	57.9	1.38	17.1	7.23	0.12	3.61	6.15	4.23	1.84	0.47	-0.22	100.0
APA-17	19°12.92	102°21.47	cone-lava	57.9	0.85	18.0	6.31	0.11	4.11	7.10	4.12	1.17	0.26	0.39	99.5
NI-2	19°02.41	102°08.31	FF-lava	58.0	0.91	17.6	5.62	0.10	4.35	7.51	3.98	1.67	0.32	0.89	100.4
UR-11	19°26.75	102°10.44	FF-lava	58.0	0.78	17.0	6.01	0.11	5.34	7.59	3.64	1.32	0.21	0.63	100.1
TAN-41B	19°21.86	102°38.96	cone-bomb	58.0	0.80	18.3	6.07	0.10	3.78	7.59	3.85	1.25	0.20	0.37	100.0
UR-45A	19°26.49	102°05.52	cone-lava	58.0	0.77	17.7	5.97	0.11	5.21	6.84	3.99	1.16	0.22	-0.30	99.8
UR-7B	19°27.97	102°10.77	shield	58.0	0.74	17.2	5.87	0.10	5.73	7.19	3.65	1.26	0.21	0.27	100.1
TAN-40	19°22.14	102°38.53	cone-bomb	58.1	0.80	18.4	6.07	0.10	3.76	7.47	3.92	1.21	0.20	0.10	100.1
UR-59	19°21.77	102°10.81	maincone	58.1	0.75	19.2	5.92	0.11	3.27	6.54	4.35	1.51	0.23	0.70	100.7
UR-19	19°24.62	102°08.77	FF-lava	58.1	0.79	17.3	6.01	0.11	4.90	7.17	3.88	1.52	0.24	0.46	100.0
UR-56	19°22.29	102°08.62	maincone	58.2	0.74	19.2	5.83	0.11	3.32	6.54	4.42	1.47	0.21	0.75	100.5
NI-14	19°11.91	102°18.91	FF-lava	58.2	0.96	17.4	6.21	0.11	4.73	6.52	4.05	1.45	0.31	-0.09	100.1
Ni-17	19°02.36	102°08.47	FF-lava	58.3	0.85	16.8	5.77	0.10	4.77	7.15	3.81	2.02	0.39	0.82	98.7
TAN-7	19°22.31	102°29.54	FF-lava	58.4	0.93	18.0	5.84	0.11	4.50	6.65	3.92	1.41	0.24	0.40	100.3
UR-28	19°15.03	102°14.74	shield	58.4	0.99	17.8	6.14	0.10	3.89	6.45	4.15	1.71	0.32	0.60	100.3
TAN-10	19°18.94	102°32.31	shield	58.4	1.05	17.4	6.49	0.11	3.81	6.53	4.14	1.67	0.38	-0.04	98.8
TAN-26	19°25.62	102°26.68	shield	58.4	0.90	17.2	6.02	0.10	4.29	6.63	4.02	2.04	0.38	0.35	98.7
UR-20	19°23.92	102°09.93	FF-lava	58.5	0.78	17.0	6.02	0.11	5.11	6.88	3.68	1.70	0.27	0.48	100.0
APA-9	19°12.60	102°31.62	shield	58.6	1.06	16.8	6.36	0.11	4.57	6.60	3.64	1.90	0.40	0.69	99.2
TAN-43	19°15.76	102°34.61	shield	58.7	0.93	17.1	6.20	0.10	4.33	6.77	4.05	1.56	0.30	0.32	100.0
UR-4	19°22.43	102°05.06	FF-lava	58.7	0.92	17.4	5.91	0.11	4.84	6.86	3.70	1.25	0.26	0.35	99.9
TAN-42	19°19.36	102°38.78	FF-lava	58.8	1.25	16.8	6.85	0.12	3.51	6.20	3.96	2.12	0.47	0.77	99.7
UR-34	19°26.33	102°01.23	FF-lava	58.8	0.90	17.4	6.08	0.11	4.42	6.80	3.77	1.48	0.25	0.74	100.1
TAN-15	19°16.94	102°23.03	FF-lava	58.8	0.77	18.4	5.25	0.11	3.77	7.23	4.20	1.26	0.20	0.05	98.6
UR-13	19°26.20	102°09.60	FF-lava	58.8	0.77	16.9	5.82	0.10	5.53	6.71	3.62	1.46	0.22	0.59	100.2
UR-60	19°21.59	102°11.13	FF-lava	58.9	0.80	17.8	5.83	0.11	4.27	6.67	3.93	1.51	0.25	0.60	99.8
TAN-1	19°19.03	102°20.72	FF-lava	58.9	0.80	17.7	5.72	0.10	4.19	6.82	4.26	1.32	0.23	0.13	100.0
NI-1	19°03.37	102°08.98	FF-lava	59.3	0.85	17.5	5.43	0.09	3.85	6.81	3.93	1.92	0.34	0.99	100.2
UR-14	19°25.52	102°14.46	cone-bomb	59.4	0.77	16.8	5.59	0.10	4.54	6.66	3.77	2.12	0.30	0.04	100.0
UR-61	19°22.01	102°11.85	FF-lava	59.4	0.80	17.2	5.87	0.10	4.31	6.71	4.03	1.40	0.25	0.52	100.0
UR-18	19°23.89	102°13.01	FF-lava	59.6	0.78	17.0	5.73	0.10	4.35	6.59	3.97	1.64	0.24	0.49	99.8
UR-5	19°25.47	102°08.14	FF-lava	59.7	0.79	17.2	5.57	0.10	4.40	6.62	3.95	1.53	0.22	0.39	100.0

TAN-16	19°16.99	102°23.81	FF-lava	59.9	0.80	17.2	5.55	0.10	4.01	6.58	3.58	2.02	0.27	1.28	100.0
UR-17	19°25.06	102°14.03	FF-lava	59.9	0.78	16.4	5.50	0.10	4.64	6.73	3.88	1.81	0.31	0.01	98.7
UR-48	19°27.58	102°05.67	cone-lava	60.0	0.78	17.0	5.51	0.09	4.53	6.59	3.88	1.43	0.22	0.19	99.0
UR-21	19°23.92	102°09.93	FF-lava	60.1	0.74	17.4	5.59	0.10	4.04	6.33	3.85	1.66	0.25	0.72	100.0
TAN-34	19°28.12	102°33.35	shield	60.1	0.91	16.7	5.27	0.09	3.84	6.64	3.80	2.32	0.31	0.45	99.3
TAN-2	19°23.71	102°23.16	maincone	60.1	0.75	18.4	5.02	0.08	3.67	6.77	3.75	1.21	0.21	0.65	100.4
NI-26	19°11.23	102°12.20	FF-lava	60.2	0.68	18.0	5.11	0.09	3.97	6.16	4.22	1.44	0.23	1.13	94.5
UR-74	19°27.56	102°15.37	FF-lava	60.3	0.78	17.1	5.44	0.09	3.93	6.53	4.02	1.64	0.23	0.65	100.0
UR-54	19°23.49	102°08.88	maincone	60.3	0.71	18.4	5.41	0.10	3.18	6.10	4.06	1.54	0.20	1.14	99.6
TAN-20	19°22.03	102°21.95	FF-lava	60.4	0.71	18.5	4.94	0.08	3.22	6.55	4.02	1.37	0.21	0.47	100.0
UR-65	19°25.10	102°18.69	maincone	60.5	0.70	17.7	5.13	0.09	3.45	6.90	3.92	1.39	0.18	-0.03	99.3
TAN-32	19°27.06	102°28.62	maincone	60.7	0.63	18.9	4.82	0.09	2.67	5.76	4.62	1.64	0.21	1.10	98.9
TAN-27	19°25.51	102°25.36	shield	60.7	0.78	17.2	5.65	0.10	4.09	5.94	3.57	1.73	0.23	1.12	100.0
TAN-28	19°23.63	102°24.72	shield	60.7	0.78	17.5	5.49	0.10	3.68	5.83	3.87	1.79	0.25	0.68	100.1
UR-51A	19°27.67	102°07.50	shield	60.8	0.76	16.9	5.33	0.09	3.87	6.65	3.85	1.54	0.21	0.25	99.5
UR-10	19°26.60	102°11.93	shield	60.8	0.72	17.1	5.28	0.09	3.95	6.33	3.73	1.78	0.22	0.03	99.9
UR-68	19°25.08	102°18.64	maincone	61.0	0.69	17.6	4.99	0.08	3.45	6.68	3.89	1.50	0.18	0.25	98.9
UR-16	19°25.34	102°14.55	maincone	61.1	0.64	18.0	5.12	0.09	2.77	6.06	4.30	1.63	0.21	0.18	99.4
APA-1	19°11.16	102°32.37	shield	61.2	0.81	16.6	5.42	0.09	3.27	5.97	3.90	2.38	0.38	0.90	98.7
TAN-13	19°15.94	102°23.14	cone-bomb	61.3	0.68	18.3	5.06	0.09	2.41	5.78	4.60	1.56	0.22	0.01	99.9
TAN-8	19°20.98	102°31.23	maincone	61.4	0.69	18.1	4.84	0.08	2.78	5.92	4.15	1.89	0.17	0.69	99.9
TAN-29	19°23.16	102°26.48	shield	61.4	0.73	17.1	5.02	0.09	3.12	5.98	4.18	2.06	0.26	0.23	100.1
TAN-5	19°24.98	102°28.65	maincone	61.4	0.60	18.8	4.88	0.08	3.10	5.87	3.57	1.50	0.14	2.01	100.4
UR-63	19°25.21	102°18.62	maincone	61.5	0.68	17.6	4.85	0.08	3.31	6.55	3.87	1.40	0.18	0.44	100.0
APA-7	19°12.31	102°34.72	FF-lava	61.5	0.68	17.2	4.92	0.09	3.34	6.11	4.36	1.55	0.25	-0.05	100.0
TAN-31	19°24.89	102°28.82	maincone	61.6	0.57	18.3	4.68	0.08	3.01	6.05	4.13	1.41	0.14	0.40	100.0
UR-33	19°28.28	102°04.61	cone-bomb	61.9	0.68	17.0	4.99	0.09	3.06	5.91	3.90	2.19	0.30	0.27	100.0
UR-72	19°25.57	102°17.99	maincone	62.1	0.67	17.6	4.67	0.08	3.24	6.32	3.72	1.42	0.18	0.10	100.3
UR-22	19°22.29	102°14.89	maincone	62.2	0.59	18.2	4.86	0.10	2.55	5.52	4.04	1.75	0.19	1.54	99.7
UR-37	19°29.32	102°01.66	FF-lava	62.4	0.67	16.7	4.95	0.09	3.06	5.88	3.91	2.09	0.28	0.52	99.2
APA-4	19°08.71	102°26.62	FF-lava	62.8	0.63	17.0	4.68	0.08	3.04	5.58	3.86	2.10	0.20	0.98	99.2
UR-35	19°27.01	102°01.33	shield	62.9	0.66	16.9	4.60	0.08	3.16	5.88	3.59	2.07	0.15	1.08	99.4
UR-76	19°21.03	102°16.78	maincone	63.6	0.60	17.3	4.50	0.08	2.92	5.04	4.06	1.75	0.16	1.53	99.2
TAN-35	19°28.06	102°33.41	lava	66.1	0.52	17.3	4.04	0.06	0.88	4.64	4.40	1.86	0.18	2.09	99.1

Table DR-2 Trace element concentrations

Samples	volcano type	SiO <sub>2</sub>	Ba	Sr	Zr	V	Cr	Co	Ni	Cu	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
NI-15	FF-lava	51.6	228	507	94	187	267	44	147	43	13.9	28.2	3.62	15.0	3.6	1.23	3.6	0.6	3.1	0.6	1.8	0.26	1.6	0.24
TAN-11	cone-lava	51.6	305	566	191	172	243	58	392	47	21.1	49.2	5.93	23.9	5.3	1.72	5.1	0.9	4.7	0.9	2.7	0.39	2.4	0.36
NI-18	cone-lava	52.1	630	971	121	194	332	36	120	43	28.9	56.5	7.05	27.2	4.9	1.44	4.0	0.6	3.0	0.5	1.7	0.24	1.5	0.22
UR-46	cone-bomb	52.2	185	446	59	188	512	52	231	64	8.0	18.7	2.55	11.6	2.8	0.99	3.0	0.5	2.8	0.6	1.7	0.26	1.6	0.24
UR-36	cone-bomb	52.3	219	498	88	181	267	44	145	43	9.8	22.9	2.94	12.6	3.1	1.09	3.3	0.5	3.1	0.6	1.9	0.27	1.7	0.24
UR-1A	cone-bomb	52.3	234	521	87	181	379	49	192	48	10.7	23.4	2.98	13.4	3.1	1.15	3.3	0.6	3.1	0.6	1.9	0.28	1.7	0.25
NI-4	cone-bomb	52.3	579	917	130	193	251	53	92	55	24.7	49.7	6.24	24.6	4.7	1.44	4.0	0.6	3.1	0.6	1.8	0.26	1.6	0.24
UR-26	shield	52.6	218	520	91	167	492	75	195	51	10.9	23.8	2.28	10.7	3.0	1.06	2.8	0.5	2.8	0.5	1.6	0.24	1.6	0.22
APA-3	cone-lava	52.6	327	467	103	170	154	40	100	47	15.7	31.3	3.08	13.9	3.7	1.26	3.5	0.6	3.5	0.7	2.3	0.35	2.2	0.33
APA-10	shield	52.7	339	479	61	169	406	64	208	49	8.1	16.6	2.34	10.5	2.6	0.89	2.7	0.4	2.3	0.5	1.4	0.21	1.3	0.19
APA-14	cone-bomb	52.7	255	496	97	189	190	38	100	40	12.2	25.8	3.21	14.8	3.6	1.27	3.5	0.6	3.5	0.7	2	0.3	1.9	0.25
NI-22	FF-lava	52.7	226	471	67	179	330	38	140	30	7.8	16.7	2.21	10.6	2.6	1.03	2.6	0.5	2.7	0.5	1.6	0.23	1.5	0.21
NI-5	FF-lava	53.2	820	1274	274	174	264	55	124	61	43.6	94.5	12.5	50.8	10.0	2.81	8.1	1.0	4.4	0.7	2.0	0.26	1.7	0.24
APA-5	FF-lava	53.2	213	589	72	158	336	71	169	45	8.9	18.8	2.07	9.9	2.9	1.00	2.6	0.4	2.5	0.5	1.4	0.21	1.3	0.19
UR-47	cone-bomb	53.2	249	503	75	173	297	53	156	55	10.5	23.7	3.10	13.5	3.2	1.09	3.2	0.6	3.0	0.6	1.8	0.26	1.6	0.24
UR-6	cone-bomb	53.5	237	495	76	169	374	61	178	42	10.1	22.1	2.79	12.9	2.9	1.06	2.9	0.5	2.7	0.5	1.5	0.23	1.5	0.22
UR-29	FF-lava	53.7	319	556	100	158	323	62	219	33	15.3	31.6	2.90	13.4	3.5	1.19	3.2	0.5	3.0	0.6	1.6	0.25	1.6	0.23
TAN-14	FF-lava	53.7	248	526	71	163	414	65	195	62	9.4	21.2	2.77	12.1	2.8	0.98	2.8	0.5	2.5	0.5	1.6	0.23	1.4	0.21
NI-13	cone-bomb	53.7	263	509	83	161	358	57	201	45	10.8	22.3	2.96	13.0	3.0	1.03	3.0	0.5	2.6	0.5	1.5	0.23	1.4	0.21
TAN-48	cone-lava	53.9	317	504	127	169	160	40	110	30	15.3	31.4	4.03	17.3	3.9	1.32	3.7	0.6	3.6	0.7	2.1	0.3	1.9	0.28
UR-12	FF-lava	54.0	549	799	122	160	281	39	174	42	29.6	60.9	7.56	32.1	6.1	1.86	5.2	0.7	3.5	0.7	1.8	0.25	1.6	0.23
TAN-47	cone-bomb	54.0	319	510	123	161	180	36	120	40	15.7	32.5	3.97	17.6	3.9	1.33	3.7	0.6	3.6	0.7	2.1	0.31	1.9	0.27
NI-27	cone-bomb	54.0	259	504	80	164	240	39	130	30	8.4	17.6	2.33	11.2	2.7	0.99	2.7	0.5	2.6	0.5	1.5	0.23	1.4	0.21
TAN-46	cone-bomb	54.2	302	892	106	183	120	27	40	50	15.5	33.2	4.24	18.6	4.1	1.4	3.8	0.6	3.5	0.7	2	0.3	1.9	0.26
TAN-9	cone-bomb	54.3	278	553	80	164	311	57	158	45	10.2	23.9	2.95	12.0	2.7	0.96	2.7	0.4	2.5	0.5	1.5	0.21	1.4	0.19
TAN-3	cone-lava	54.4	310	539	98	173	233	55	128	40	12.1	28.6	3.53	14.6	3.3	1.19	3.4	0.6	3.2	0.7	1.9	0.29	1.8	0.25
TAN-23	cone-lava	54.5	300	479	114	193	84	56	42	69	13.3	30.1	3.79	16.6	3.7	1.29	4.0	0.7	3.7	0.8	2.3	0.34	2.1	0.30
TAN-19	FF-lava	54.5	263	535	78	157	298	41	156	46	10.2	21.5	2.92	12.6	3.0	1.04	3.0	0.5	2.6	0.5	1.6	0.23	1.4	0.22
TAN-45	FF-lava	54.6	408	516	124	141	170	32	100	40	14.9	30.7	3.96	18.4	4.1	1.35	3.7	0.6	3.6	0.7	2.1	0.32	2	0.28
NI-12	FF-lava	54.8	387	539	106	169	129	35	76	54	21.6	30.5	4.95	20.9	4.6	1.59	5.4	0.9	5.0	1.1	3.4	0.50	3.1	0.47
TAN-18	FF-lava	55.0	215	474	66	168	405	54	130	41	8.4	19.4	2.49	10.9	2.6	0.95	2.8	0.5	2.6	0.5	1.6	0.23	1.4	0.21
UR-8B	FF-lava	55.0	639	886	147	150	163	37	108	35	30.7	68.1	8.25	33.7	6.5	1.87	5.4	0.7	3.5	0.7	1.9	0.25	1.6	0.22
NI-29	cone-bomb	55.3	968	1546	148	152	100	24	110	50	52.6	94.4	10.6	40.6	6.7	1.82	4.7	0.6	2.9	0.5	1.3	0.19	1.2	0.16
APA-6	FF-lava	56.0	362	545	110	138	201	50	120	32	13.9	28.1	2.88	12.8	3.6	1.17	3.2	0.5	2.8	0.5	1.5	0.22	1.4	0.20
UR-40	cone-bomb	56.0	358																					

TAN-10	shield	58.4	573	567	175	126	46	38	40	28	22.9	49.6	5.73	22.4	4.5	1.38	4.0	0.7	3.7	0.7	2.1	0.29	1.9	0.27
TAN-26	FF-lava	58.4	764	888	179	137	92	49	62	43	30.2	64.9	7.68	30.4	5.6	1.65	4.6	0.6	3.1	0.6	1.7	0.23	1.4	0.21
UR-20	shield	58.5	631	636	138	126	127	59	109	30	24.2	50.6	6.06	25.5	5.2	1.58	4.5	0.7	3.3	0.6	1.8	0.25	1.6	0.24
APA-9	shield	58.6	576	551	199	122	98	54	74	29	25.6	49.8	6.15	24.4	5.0	1.52	4.7	0.7	3.7	0.7	2.1	0.31	1.9	0.29
TAN-43	FF-lava	58.7	600	596	162	134	102	44	69	50	21.9	45.5	5.25	21.6	4.4	1.30	4.1	0.7	3.5	0.7	2.0	0.29	1.8	0.26
UR-4	FF-lava	58.7	517	596	148	126	122	52	86	36	19.5	38.4	4.68	19.6	4.1	1.32	3.8	0.6	3.3	0.6	1.9	0.28	1.7	0.25
TAN-42	FF-lava	58.8	959	516	244	118	50	34	37	25	30.7	64.3	7.43	29.3	6.0	1.70	5.7	0.9	4.6	0.9	2.6	0.38	2.3	0.34
UR-34	FF-lava	58.8	494	598	137	129	67	27	62	23	19.0	39.8	4.76	18.9	3.8	1.24	3.7	0.6	3.1	0.6	1.7	0.25	1.6	0.23
TAN-15	FF-lava	58.8	439	919	107	125	n.d.	41	25	30	18.1	39.5	4.85	19.7	3.9	1.27	3.5	0.5	2.7	0.5	1.6	0.22	1.4	0.21
UR-13	FF-lava	58.8	498	661	119	131	134	34	132	41	18.2	36.7	4.34	18.4	3.8	1.19	3.4	0.5	2.9	0.5	1.6	0.24	1.5	0.22
UR-60	FF-lava	58.9	533	567	111	133	85	34	65	26	18.8	38.2	4.66	19.5	4.1	1.27	3.6	0.6	2.8	0.5	1.6	0.23	1.5	0.21
TAN-1	FF-lava	58.9	444	615	112	132	65	58	69	35	14.3	32.7	4.00	16.0	3.4	1.14	3.2	0.5	2.8	0.6	1.6	0.23	1.5	0.22
NI-1	cone-bomb	59.3	660	1096	166	127	62	47	51	27	27.8	56.3	5.89	24.1	6.0	1.72	4.6	0.6	3.0	0.5	1.4	0.20	1.3	0.17
UR-14	FF-lava	59.4	762	825	168	123	107	37	90	30	31.8	65.5	7.84	32.7	6.2	1.81	5.2	0.7	3.5	0.6	1.8	0.25	1.6	0.23
UR-61	FF-lava	59.4	493	562	120	117	112	52	77	33	18.6	39.1	4.82	19.6	4.1	1.28	3.7	0.6	2.9	0.6	1.6	0.23	1.5	0.21
UR-18	FF-lava	59.6	532	551	132	119	85	25	64	26	19.0	40.2	4.74	19.7	4.0	1.26	3.7	0.6	2.9	0.6	1.6	0.24	1.5	0.20
UR-5	FF-lava	59.7	557	520	131	125	70	27	80	34	19.0	39.8	4.60	18.3	3.7	1.16	3.5	0.6	3.0	0.6	1.8	0.25	1.6	0.23
TAN-16	FF-lava	59.9	631	742	158	130	71	57	58	36	32.2	59.5	7.17	28.2	5.3	1.48	4.8	0.7	3.6	0.7	2.1	0.30	1.9	0.26
UR-17	cone-lava	59.9	696	769	158	122	101	28	82	31	26.9	57.3	6.94	28.3	5.5	1.57	4.7	0.7	3.2	0.6	1.8	0.25	1.5	0.21
UR-48	FF-lava	60.0	496	530	130	129	100	34	91	36	18.9	39.2	4.64	18.4	3.8	1.18	3.6	0.5	2.9	0.6	1.6	0.24	1.5	0.22
Ur-21	shield	60.1	611	576	143	114	87	56	65	23	21.9	45.0	5.21	22.0	4.4	1.33	3.8	0.6	3.0	0.6	1.6	0.23	1.5	0.22
TAN-34	maincone	60.1	888	1054	206	125	83	37	57	32	37.1	79.3	9.57	38.5	7.1	1.97	5.4	0.8	3.6	0.6	1.8	0.26	1.7	0.23
TAN-2	FF-lava	60.1	366	1245	101	115	40	52	44	32	19.2	38.5	3.49	14.6	3.5	1.13	2.7	0.4	2.1	0.4	1.1	0.16	1.1	0.15
NI-26	FF-lava	60.2	462	803	99	99	110	20	70	30	19.9	33.4	4.88	18.5	3.6	1.22	3.0	0.4	3.0	0.4	1.1	0.16	1.0	0.14
UR-74	maincone	60.3	526	606	119	117	84	39	59	33	19.7	40.3	4.79	19.8	4.0	1.20	3.5	0.5	2.8	0.5	1.6	0.23	1.4	0.20
UR-54	FF-lava	60.3	464	680	107	116	n.d.	27	23	27	20.0	35.7	4.88	19.6	3.9	1.21	3.7	0.6	3.0	0.6	1.7	0.25	1.6	0.23
TAN-20	maincone	60.4	426	1055	118	112	39	45	101	14	18.5	39.3	4.73	18.3	3.4	1.08	2.8	0.4	2.2	0.4	1.3	0.18	1.1	0.17
UR-65	maincone	60.5	426	876	103	127	28	30	47	47	16.4	34.1	4.17	16.5	3.2	1.07	2.9	0.5	2.4	0.5	1.4	0.20	1.3	0.19
TAN-32	shield	60.7	603	944	104	115	40	37	30	20														
TAN-27	shield	60.7	607	528	150	114	117	47	121	36	29.6	46.7	6.07	24.4	4.7	1.36	4.4	0.7	3.9	0.8	2.4	0.33	2.0	0.31
TAN-28	shield	60.7	655	564	155	116	82	40	65	36	28.8	50.4	6.85	28.0	5.5	1.58	5.1	0.7	3.7	0.7	2.0	0.29	1.8	0.26
UR-51A	shield	60.8	574	484	136	125	53	32	77	40	20.8	42.3	4.90	19.3	3.9	1.15	3.5	0.6	3.0	0.6	1.7	0.25	1.6	0.23
UR-10	maincone	60.8	619	541	143	119	54	30	66	29	21.4	40.5	4.90	19.3	4.0	1.20	3.6	0.6	2.9	0.6	1.6	0.25	1.5	0.23
UR-68	maincone	61.0	439	863	109	122	28	47	48	70	17.0	35.3	4.28	17.4	3.4	1.03	2.9	0.5	2.4	0.5	1.4	0.20	1.2	0.19
UR-16	shield	61.1	534	633	127	110	n.d.	21	n.d.	38	17.7	37.2	4.35	17.7	3.5	1.05	3.0	0.5	2.5	0.5	1.5	0.23	1.4	0.22
APA-1	cone-bomb	61.2	753	612	180	110	51	43	32	47														

**Table DR-3 Geochemistry for samples >2 Ma**

<b>Sample</b>	UR-30	NI-11	TAN-36	NI-20	UR-38	TAN-44
<b>Latitude</b>	19°16.35	19°12.19	19°26.59	19°06.11	19°28.83	19°26.22
<b>Longitude</b>	102°04.45	102°02.09	102°35.28	102°13.19	102°02.03	102°37.90
<b>rock type</b>	Basalt	BA	BA	Andesite	Andesite	Rhyolite
<b>Age (Ma)</b>	3.5	3.3	6.5	39.4	2.1	36.5
<b>SiO<sub>2</sub></b>	51.44	53.11	56.51	57.06	62.63	70.20
<b>TiO<sub>2</sub></b>	1.06	1.30	1.29	1.52	0.65	0.57
<b>Al<sub>2</sub>O<sub>3</sub></b>	17.46	16.39	14.71	17.27	17.70	13.86
<b>FeO<sub>t</sub></b>	9.71	7.66	7.02	8.73	4.97	4.83
<b>MnO</b>	0.16	0.12	0.10	0.13	0.07	0.11
<b>MgO</b>	6.82	4.53	5.50	2.12	2.53	0.82
<b>CaO</b>	9.67	8.67	8.25	8.09	5.71	0.81
<b>Na<sub>2</sub>O</b>	2.99	4.93	3.69	3.15	3.92	4.87
<b>K<sub>2</sub>O</b>	0.56	2.37	2.42	1.55	1.63	3.76
<b>P<sub>2</sub>O<sub>5</sub></b>	0.13	0.93	0.50	0.40	0.18	0.16
<b>LOI</b>	0.83	2.00	1.59	2.78	1.36	1.67
<b>TOTAL</b>	99.97	100.08	99.11	98.78	99.43	99.3
<b>Ba</b>	161	1480	1032	756	510	1315
<b>Sr</b>	449	2321	1648	654	609	121
<b>Zr</b>	89	143	223	226	119	178
<b>V</b>	201	168	173	223	115	63
<b>Cr</b>	189	32	230	< 20	n.d.	n.d.
<b>Co</b>	46	49	51	31	17	18
<b>Ni</b>	113	45	139	< 20	21	n.d.
<b>Cu</b>	88	43	69	50	n.d.	10
<b>La</b>	14.4	61.0	47.9	25.3	23.3	29.8
<b>Ce</b>	21.7	113.7	96.4	51.7	33.8	45.5
<b>Pr</b>	4.0	11.2	12.8	6.7	5.4	6.9
<b>Nd</b>	18.2	43.4	51.5	31.4	22.6	30.4
<b>Sm</b>	4.5	9.1	9.1	7.5	4.5	6.7
<b>Eu</b>	1.8	2.5	2.6	1.7	1.5	1.6
<b>Gd</b>	6.3	6.0	7.3	7.7	4.3	7.0
<b>Tb</b>	1.2	0.6	0.9	1.4	0.7	1.3
<b>Dy</b>	6.7	3.0	4.2	7.7	3.5	7.5
<b>Ho</b>	1.5	0.5	0.7	1.5	0.7	1.5
<b>Er</b>	4.7	1.3	1.9	4.6	2.0	4.3
<b>Tm</b>	0.7	0.2	0.3	0.7	0.3	0.6
<b>Yb</b>	4.1	1.1	1.6	4.2	1.7	3.9
<b>Lu</b>	0.6	0.1	0.2	0.6	0.2	0.6

**Table DR-4 Point counts of crystal abundances (vol%).**

sample	SiO <sub>2</sub>	volcano type	ol phen	ol mph	cpx phen	cpx mph	opx phen	opx mph	plag phen	plag mph	hbl (ph+mph)	oxides	xtls	gmds
NI-15	51.6	ff lava	5.7	2.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	91.9
TAN-11	51.6	cc lava	4.3	1.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	5.9	94.1
NI-18	52.1	cc lava	9.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.8	12.1	87.9	
UR-46	52.2	cc bomb	5.1	4.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	9.3	90.7	
UR-36	52.3	cc bomb	6.7	3.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	10.3	89.7	
UR-1A	52.3	cc bomb	5.0	2.2	0.0	0.3	0.0	0.0	1.0	4.6	0.0	0.0	13.1	86.9
NI-4	52.3	cc bomb	3.8	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	5.3	94.7
UR-26	52.6	shield lava	7.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	88.3
APA-3	52.6	cc lava	2.7	1.0	0.0	0.9	0.0	0.0	4.2	7.7	0.0	0.0	16.5	83.5
APA-10	52.7	shield lava	6.4	1.7	0.0	0.5	0.0	0.0	0.0	0.0	1.2	9.8	90.2	
APA-14	52.7	cc bomb	3.6	0.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	5.1	94.9
NI-22	52.7	ff lava	5.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	92.9
NI-5	53.2	cc bomb	2.9	1.4	0.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	10.0	90.0
APA-5	53.2	ff lava	6.6	1.5	0.0	0.0	0.0	0.0	0.1	3.0	0.0	0.1	11.3	88.7
UR-47	53.2	ff lava	4.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.9	94.1
UR-6	53.5	cc bomb	5.8	1.7	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.8	90.2
UR-29	53.7	cc bomb	8.7	3.3	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	13.4	86.6
TAN-14	53.7	ff lava	7.1	1.5	0.0	0.3	0.2	0.0	1.3	0.5	0.0	0.1	11.0	89.0
NI-13	53.7	ff lava	8.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	90.1
TAN-48	53.9	cc bomb	4.4	0.7	0.0	0.0	0.0	0.0	0.7	3.7	0.0	0.0	9.5	90.5
UR-12	54.0	cc lava	6.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	92.4
TAN-47	54.0	ff lava	5.2	1.6	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	8.1	91.9
NI-27	54.0	cc bomb	4.8	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	5.8	94.2
TAN-46	54.2	cc bomb	3.8	0.5	4.5	0.3	0.0	0.0	1.9	5.4	0.0	0.0	16.4	83.6
TAN-9	54.3	cc bomb	4.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	91.4
TAN-3	54.4	cc bomb	3.7	1.0	1.6	1.7	0.0	0.0	5.2	6.1	0.0	0.0	19.3	80.7
TAN-23	54.5	cc lava	1.6	1.2	2.6	3.0	0.0	0.2	6.0	5.5	0.0	0.0	20.1	79.9
TAN-19	54.5	cc lava	6.1	0.8	0.0	0.4	0.0	0.0	4.2	3.7	0.0	0.0	15.2	84.8
TAN-45	54.6	ff lava	2.3	0.7	0.0	0.0	0.0	0.0	0.9	6.6	0.0	0.0	10.5	89.5
NI-12	54.8	ff lava	2.2	0.1	0.0	0.2	0.0	0.0	1.1	0.3	0.0	0.2	4.1	95.9
TAN-18	55.0	ff lava	7.6	0.7	0.0	0.3	0.0	0.0	0.5	3.2	0.0	0.0	12.3	87.7
UR-8B	55.0	ff lava	4.2	0.7	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	5.8	94.2
NI-29	55.3	ff lava	0.2	0.0	0.0	2.5	0.0	0.3	0.0	0.0	4.0	0.4	7.4	92.6
APA-6	56.0	cc bomb	3.5	0.3	0.0	0.9	0.0	0.0	0.0	1.5	0.0	0.0	6.2	93.8
UR-40	56.0	ff lava	5.0	0.3	0.0	0.0	0.0	0.0	0.5	3.1	0.0	0.0	8.9	91.1
UR-42	56.0	cc bomb	0.6	0.9	0.3	0.0	0.3	0.0	0.0	0.2	0.0	0.0	2.3	97.7
APA-2	56.2	shield lava	5.7	0.4	0.0	0.2	0.0	0.0	0.6	1.1	0.0	0.0	8.0	92.0
NI-16	56.6	ff lava	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.2	95.8
UR-75	56.6	cc bomb	4.6	0.5	0.0	0.0	0.0	0.0	1.0	2.4	0.0	0.0	8.5	91.5
APA-8	56.7	shield lava	4.4	0.0	0.1	0.0	0.0	0.0	0.0	6.4	0.0	0.0	10.9	89.1
UR-2	56.9	ff lava	5.2	1.0	0.0	0.2	0.0	0.0	5.1	8.5	0.0	0.0	20.0	80.0
UR-49	57.2	ff lava	4.8	0.0	0.0	0.8	0.3	0.9	8.1	6.9	0.0	0.3	22.1	77.9
UR-9	57.2	ff lava	4.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	95.3
NI-21	57.3	ff lava	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	94.8
UR-44	57.7	cc lava	3.9	0.7	0.0	0.0	0.0	0.0	2.9	7.4	0.0	0.0	14.9	85.1
UR-32	57.7	shield lava	1.2	3.1	0.0	0.0	0.0	0.0	1.7	2.6	0.0	1.2	9.8	90.2
TAN-39	57.9	shield lava	1.0	0.8	0.0	0.2	0.0	0.0	0.0	4.4	0.0	0.0	6.4	93.6
APA-17	57.9	cc lava	1.0	1.3	0.0	0.0	0.0	0.0	0.5	1.8	0.0	0.0	4.6	95.4
NI-2	58.0	ff lava	0.0	0.0	0.5	0.1	0.1	0.0	0.0	0.0	9.8	0.1	10.6	89.4
UR-11	58.0	ff lava	2.7	0.5	1.9	1.6	0.0	0.0	6.1	7.9	0.0	0.0	20.7	79.3
TAN-41B	58.0	cc bomb	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	99.7
UR-45A	58.0	cc lava	3.5	2.2	0.0	0.0	0.0	0.0	2.5	4.0	0.0	0.0	12.2	87.8
UR-7B	58.0	shield lava	0.0	0.0	1.1	2.1	0.6	0.8	2.4	10.9	0.0	0.2	18.1	81.9
TAN-40	58.1	cc bomb	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.4	2.9	97.1
UR-59	58.1	maincone	0.0	0.0	2.1	1.6	0.5	0.5	18.0	4.7	0.0	0.8	28.2	71.8
UR-19	58.1	ff lava	2.5	0.2	0.7	0.7	0.0	0.4	2.5	4.3	0.0	0.0	11.3	88.7
UR-56	58.2	maincone	0.0	0.0	1.9	1.2	1.7	0.4	26.8	4.0	0.0	1.0	37.0	63.0
NI-14	58.2	ff lava	1.8	0.5	0.0	0.0	0							

TAN-26	58.4	shield lava	0.6	0.3	1.7	1.8	0.0	0.0	0.8	9.6	0.0	0.4	15.2	84.8
UR-20	58.5	ff lava	0.1	0.0	2.2	2.0	0.6	0.3	1.2	3.0	0.0	0.0	9.4	90.6
APA-9	58.6	shield lava	2.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	4.9	95.1
TAN-43	58.7	shield lava	2.1	2.2	0.0	0.0	0.0	0.0	3.2	9.0	0.0	0.7	17.2	82.8
UR-4	58.7	ff lava	1.5	0.3	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	2.8	97.2
TAN-42	58.8	ff lava	1.4	0.3	0.0	0.1	0.0	0.0	0.0	2.2	0.0	0.0	4.0	96.0
UR-34	58.8	ff lava	0.1	0.0	0.4	1.5	0.0	0.0	0.3	1.5	0.0	0.0	3.8	96.2
TAN-15	58.8	ff lava	0.0	0.0	0.0	0.6	0.0	0.0	0.1	1.2	1.5	0.0	3.4	96.6
UR-13	58.8	ff lava	3.3	0.0	0.8	1.8	0.5	1.6	4.3	9.5	0.0	0.0	21.8	78.2
UR-60	58.9	ff lava	0.5	0.7	0.7	0.7	0.0	0.0	0.7	3.4	0.0	0.0	6.7	93.3
TAN-1	58.9	ff lava	2.2	0.0	1.8	0.1	0.5	0.2	7.2	10.7	0.0	0.2	22.9	77.1
NI-1	59.3	ff lava	0.0	0.0	0.3	0.4	0.0	0.2	0.0	0.0	0.8	0.0	1.7	98.3
UR-14	59.4	cc bomb	0.2	0.0	2.1	1.0	0.6	0.2	2.0	2.3	0.0	0.0	8.4	91.6
UR-61	59.4	ff lava	1.5	0.8	0.0	0.0	0.0	0.0	0.4	0.5	0.0	0.1	3.3	96.7
UR-18	59.6	ff lava	2.3	0.3	0.2	0.6	0.0	0.0	1.0	2.0	0.0	0.1	6.5	93.5
UR-5	59.7	ff lava	2.2	0.7	0.8	0.0	1.0	2.1	7.6	11.2	0.0	0.0	25.6	74.4
TAN-16	59.9	ff lava	0.5	0.0	2.1	1.8	1.4	0.1	1.2	12.4	0.0	0.2	19.7	80.3
UR-17	59.9	ff lava	2.7	0.0	2.3	1.6	0.9	0.4	1.9	1.4	0.0	0.2	11.4	88.6
UR-48	60.0	cc lava	1.3	0.5	0.2	0.0	0.4	0.7	8.1	9.2	0.0	0.3	20.7	79.3
UR-21	60.1	ff lava	1.3	0.5	0.2	0.0	0.3	0.5	0.9	1.0	0.0	0.2	4.9	95.1
TAN-34	60.1	shield lava	1.1	0.0	0.3	0.5	1.5	1.1	2.2	4.2	0.0	0.0	10.9	89.1
TAN-2	60.1	maincone	0.0	0.0	2.1	1.5	0.6	2.0	8.1	12.2	2.8	1.1	30.4	69.6
NI-26	60.2	ff lava	3.0	0.7	0.1	0.8	0.0	0.5	0.0	0.0	2.2	0.1	7.4	92.6
UR-74	60.3	ff lava	0.0	0.0	1.2	1.4	1.5	0.9	3.5	3.9	0.2	0.1	12.7	87.3
UR-54	60.3	maincone	0.0	0.0	1.9	0.8	1.3	1.2	18.3	4.1	2.0	1.2	30.8	69.2
TAN-20	60.4	ff lava	0.0	0.0	3.8	1.2	0.5	0.8	18.1	7.1	0.5	0.5	32.5	67.5
UR-65	60.5	maincone	0.0	0.0	1.5	1.7	1.4	2.4	12.5	11.7	0.0	1.6	32.8	67.2
TAN-32	60.7	maincone	0.0	0.0	1.1	1.4	0.8	0.8	14.3	6.6	1.4	0.9	27.3	72.7
TAN-27	60.7	shield lava	0.0	0.0	1.0	1.2	0.5	0.4	2.4	13.6	0.0	0.0	19.1	80.9
TAN-28	60.7	shield lava	0.0	0.0	0.6	2.2	1.1	0.7	3.2	14.4	0.0	0.0	22.2	77.8
UR-51A	60.8	shield lava	0.0	0.0	1.7	0.9	1.7	1.4	7.4	15.9	0.0	0.0	29.0	71.0
UR-10	60.8	shield lava	0.0	0.0	2.5	3.7	1.6	1.5	10.9	13.3	0.0	0.0	33.5	66.5
UR-68	61.0	maincone	0.0	0.0	2.7	3.9	0.8	2.0	10.2	13.9	0.0	0.1	33.6	66.4
UR-16	61.1	maincone	0.0	0.0	3.2	1.4	1.3	1.2	27.5	4.4	0.1	2.2	41.3	58.7
APA-1	61.2	shield lava	0.8	0.0	1.2	1.1	0.0	0.0	0.0	0.4	0.0	0.1	3.6	96.4
TAN-13	61.3	cc bomb	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.7	0.0	0.2	2.0	98.0
TAN-8	61.4	maincone	0.0	0.0	0.3	0.4	0.3	0.9	21.2	8.2	0.0	0.3	31.6	68.4
TAN-29	61.4	shield	0.4	0.1	0.1	0.2	0.0	0.0	0.2	12.1	0.0	0.2	13.3	86.7
TAN-5	61.4	maincone	0.0	0.0	2.5	0.7	1.1	2.0	17.1	8.9	1.7	0.7	34.7	65.3
UR-63	61.5	maincone	0.0	0.0	1.8	3.2	0.8	3.0	9.0	16.7	1.8	1.5	37.8	62.2
APA-7	61.5	ff lava	0.0	0.0	0.7	0.8	0.1	0.3	0.0	0.1	0.0	0.0	2.0	98.0
TAN-31	61.6	maincone	0.0	0.0	1.6	1.2	1.9	2.2	21.4	6.4	0.3	0.4	35.4	64.6
UR-33	61.9	cc bomb	0.0	0.0	1.0	4.4	0.0	0.0	1.1	12.5	0.0	0.5	19.5	80.5
UR-72	62.1	maincone	0.0	0.0	1.1	1.9	0.8	3.2	7.1	16.3	0.9	1.0	32.3	67.7
UR-22	62.2	maincone	0.0	0.0	2.5	1.9	1.3	1.6	19.4	1.8	1.9	0.4	30.8	69.2
UR-37	62.4	ff lava	0.0	0.0	1.4	1.9	0.2	0.6	2.8	17.2	0.0	0.0	24.1	75.9
APA-4	62.8	ff lava	0.1	0.0	0.0	0.3	1.1	0.3	0.0	0.1	0.0	0.0	1.9	98.1
UR-35	62.9	shield lava	0.0	0.0	0.4	2.5	1.2	1.1	1.7	4.9	0.0	0.1	11.9	88.1
UR-76	63.6	maincone	0.0	0.0	1.3	2.2	1.8	2.7	30.7	5.5	0.0	1.2	45.4	54.6
TAN-35	66.1	lava	0.0	0.0	0.0	0.0	0.0	0.0	12.0	4.3	4.2	1.3	21.8	78.2

TABLE DR-5 (Ar data)

B0B													
MC03 b0b APA-2 BA													
	mass=	0.0104	J=	4.90E-04	+/-	1.67E-06	tot.gas.age=	0.104	+/-	0.039			
F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.013089	100	6.18374	0.08495	11.56491	12.92595	10.10927	0.22688	41.61078	0.18663	1776.411	1.49618	-1.081 0.535
	0.073357	200	12.2704	0.23584	77.76189	8.31934	40.634	0.27342	191.5992	0.77843	3642.658	2.64801	0.077 0.322
	0.168616	300	7.73559	0.15118	255.6885	14.37297	59.71426	0.14819	302.8389	0.62654	2271.454	2.73556	-0.042 0.131
	0.279869	400	5.4686	0.14195	392.9742	14.27048	67.88744	0.29197	353.6853	1.0083	1584.824	1.75074	-0.078 0.105
	0.396075	500	3.95963	0.13262	476.013	12.63014	70.82308	0.39835	369.4353	1.02129	1215.283	1.63244	0.108 0.094
	0.507293	600	2.79418	0.12551	559.558	15.73263	68.89845	0.35371	353.5732	0.96769	893.1384	1.11281	0.169 0.093
	0.641389	800	2.92695	0.11044	856.9986	16.4785	87.16351	0.45091	426.3076	0.75422	964.822	1.69053	0.207 0.068
	0.743404	1000	2.52068	0.10293	677.9444	17.19738	70.80144	0.5106	324.3154	0.42866	760.7737	1.18275	0.043 0.083
	0.814609	1200	2.47999	0.08764	503.0991	14.67624	54.20808	0.24623	226.37	0.45919	783.6046	1.11795	0.198 0.101
	0.882201	1600	3.08984	0.10608	563.0297	12.87365	56.70273	0.33096	214.8822	0.56874	959.4864	1.72164	0.191 0.129
	0.935122	2000	3.09861	0.13899	534.9402	15.31326	45.42293	0.22443	168.242	0.37979	917.1225	0.89379	0.008 0.216
	0.964442	3000	2.11225	0.12506	527.852	14.35468	23.35766	0.18857	93.21299	0.26382	595.4082	1.08678	-0.273 0.351
	1	4000	1.53766	0.10114	689.6461	14.11363	26.27778	0.24185	113.0424	0.49501	610.7794	1.06659	1.223 0.234
B1A	mass=	0.01	J=	4.88E-04	+/-	1.47E-06	tot.gas.age=	0.239	+/-	0.034			
MC03 b1a APA-6 BA													
F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.026014	100	2.15708	0.07976	32.43527	2.0747	15.36005	0.14394	60.4676	0.40311	675.3527	1.45204	0.552 0.344
	0.1297	200	3.0844	0.11835	140.6725	3.20431	58.40525	0.32737	241.0152	0.42258	952.9854	2.24299	0.152 0.128
	0.296213	300	2.63532	0.08466	318.8145	4.76781	95.07159	0.28754	387.0533	1.26599	876.6561	2.38127	0.223 0.057
	0.437915	400	1.83552	0.12094	445.7571	4.65733	81.57141	0.35106	329.3819	0.75936	634.0418	2.22888	0.245 0.096
	0.558622	500	1.27199	0.08973	568.4882	5.28186	66.47977	0.63508	280.5793	1.02186	523.1406	1.72201	0.462 0.083
	0.656485	600	1.0507	0.06413	685.4791	7.54017	51.06806	0.2016	227.4796	0.51104	383.1835	0.88729	0.281 0.073
	0.742954	800	1.1894	0.06102	853.7576	6.15538	44.84873	0.4096	200.9944	0.52587	389.1238	0.93384	0.165 0.079
	0.795041	1000	0.89861	0.04751	503.792	5.70111	28.7235	0.20886	121.073	0.52861	270.2811	0.68293	0.034 0.102
	0.846875	1200	0.83345	0.0848	379.5727	3.81825	30.14703	0.27851	120.4871	0.36897	242.5438	0.98139	-0.027 0.183
	0.919968	1600	0.81484	0.08468	565.5751	3.90393	43.47892	0.28276	169.9015	0.49213	291.9412	0.85799	0.265 0.13
	0.940399	2000	0.28684	0.05569	231.2064	3.44167	11.40346	0.19686	47.49148	0.40066	108.5184	0.75372	0.44 0.305
	0.963386	3000	0.38298	0.07308	283.2695	3.68261	12.67705	0.1437	53.43331	0.30123	121.9768	1.00609	0.145 0.356
	1	4000	0.53672	0.0792	455.4686	5.86133	20.96362	0.16594	85.10748	0.52094	178.6795	1.21771	0.208 0.243
B2A	mass=	0.0101	J=	4.90E-04	+/-	1.54E-06	tot.gas.age=	0.111	+/-	0.073			
MC01 b2a APA-7 Andesite													
F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.001496	100	24.22254	0.21777	3.77272	2.40184	5.05015	0.09832	3.14841	0.12171	7092.799	3.93977	-18.335 18.303
	0.008782	200	22.62852	0.12778	8.59926	2.15941	6.48485	0.15121	15.32886	0.17188	674.493	4.08149	3.271 2.187
	0.02163	300	12.28025	0.2077	22.58357	2.10168	6.34881	0.0989	27.03329	0.19679	3670.947	3.33411	1.377 2.009
	0.038306	400	2.26178	0.10526	29.90313	1.89453	5.20447	0.16156	35.08626	0.23424	674.9973	0.56068	0.167 0.784
	0.058768	500	2.45639	0.0816	43.72272	2.56103	6.48403	0.12007	43.05327	0.3372	724.0717	1.2953	-0.037 0.496
	0.080814	600	0.93545	0.09484	51.15433	2.64164	6.63223	0.15912	46.38488	0.43893	247.8218	0.73145	-0.545 0.535
	0.115107	800	1.60155	0.10552	93.12864	3.04603	10.4932	0.20188	72.15348	0.23367	460.746	0.8967	-0.153 0.382
	0.155837	1000	5.96772	0.12109	119.1509	2.7488	13.1042	0.17737	85.69841	0.34266	1742.781	0.39039	-0.213 0.369
	0.200783	1200	9.78246	0.24666	136.3996	2.03381	15.03381	0.14142	94.5667	0.32088	2810.914	2.02993	-0.746 0.682
	0.296052	1600	14.9257	0.18805	334.8729	2.77615	32.24283	0.31998	200.4507	0.54205	4447.048	2.25423	0.161 0.245
	0.469799	2000	16.38446	0.25878	619.1421	4.38245	57.02064	0.35124	365.5684	0.88194	4739.183	2.39617	-0.248 0.185
	0.730287	3000	6.57753	0.10788	1034.705	8.22427	81.34281	0.29884	548.0776	0.85044	2188.249	2.06301	0.395 0.052
	1	4000	3.15622	0.08102	976.691	4.52318	82.85598	0.33855	567.4848	1.07049	1121.135	2.12449	0.294 0.037
B3A	mass=	0.0127	J=	4.90E-04	+/-	1.38E-06	tot.gas.age=	0.331	+/-	0.055			
MC03 b3a APA-8 BA													
F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.005444	100	5.10168	0.06945	10.81932	1.66258	5.9082	0.09833	20.93302	0.21624	1459.693	2.22577	-2.021 0.873
	0.049748	200	28.79397	0.24923	83.79566	2.59814	43.6766	0.30492	170.3629	0.66742	8389.531	5.65485	-0.618 0.383
	0.132279	300	40.83107	0.18472	244.1135	5.68933	75.41206	0.20478	317.3576	0.82505	11920.29	5.361	-0.405 0.153
	0.238342	400	43.65218	0.3464	422.0707	6.22342	90.41954	0.29722	407.8449	0.73482	12891.13	7.88647	-0.018 0.222

		0.344106	500	38.4445	0.262	488.8736	4.73496	83.61863	0.49318	406.6987	0.57307	11387.59	5.05233	0.059	0.169	
		0.447564	600	33.28968	0.42612	514.7927	4.68696	77.38883	0.53285	397.8275	1.02673	10053.85	5.73311	0.481	0.28	
		0.57644	800	35.69151	0.21915	725.6625	5.55228	85.65772	0.39874	495.5678	0.47866	10816.95	6.88546	0.482	0.116	
		0.689358	1000	24.47376	0.21007	733.9763	6.87818	61.93096	0.39124	434.2077	0.8404	7508.264	5.02727	0.562	0.127	
		0.77573	1200	13.84242	0.09721	720.5116	5.5005	38.10697	0.24357	332.1262	0.68803	4357.966	2.28066	0.712	0.077	
		0.865624	1600	11.51433	0.17116	976.9883	7.00848	35.60296	0.2033	345.6693	0.68781	3625.485	1.55167	0.57	0.129	
		0.91733	2000	7.49399	0.10205	716.3424	4.67874	21.7556	0.25314	198.8268	0.70808	2365.123	1.30217	0.669	0.134	
		0.958131	3000	7.28264	0.15547	1082.347	6.86901	19.65791	0.18241	156.8926	0.69919	2325.085	1.16456	0.975	0.259	
		1	4000	7.15654	0.13815	972.1795	5.78944	20.33868	0.22316	161.0008	0.36798	2271.427	1.18147	0.86	0.224	
B4A	MC03 b4a APA-9 BA	mass= 0.0092 J= 4.93E-04 +/- 1.74E-06 tot.gas.age= 0.133 +/- 0.043	F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.019667	100	13.33482	0.1159	21.28215	2.1759	15.07202	0.17149	83.60289	0.19374	3911.353	4.08531	-0.309	0.367	
		0.085363	200	26.78215	0.30449	101.4436	3.00789	45.7291	0.2136	279.2745	0.60828	7882.188	8.69221	-0.102	0.288	
		0.174992	300	29.54203	0.27188	188.7402	2.94895	60.80817	0.41373	381.011	0.81025	8701.174	3.00701	-0.066	0.188	
		0.274786	400	27.05043	0.17735	289.3728	4.14604	66.26232	0.29774	424.2207	0.56969	8068.986	3.9513	0.158	0.11	
		0.399949	500	30.00999	0.29931	416.9489	3.68095	82.34478	0.41575	532.0643	1.0794	8868.93	1.29991	0.002	0.148	
		0.505896	600	22.98493	0.21316	461.7562	3.04514	67.47144	0.45565	450.3788	0.85053	6877.526	3.48338	0.169	0.124	
		0.637036	800	27.2266	0.20568	766.5801	4.01187	85.72449	0.45789	557.4759	0.87365	8168.535	5.54645	0.196	0.097	
		0.733908	1000	19.70189	0.18274	676.9029	6.84714	67.412	0.27783	411.8002	0.62505	5984.166	2.92357	0.35	0.117	
		0.800171	1200	13.94412	0.14092	490.4075	6.8964	50.88582	0.42286	281.6812	0.34126	4215.485	2.8019	0.3	0.132	
		0.908388	1600	23.37241	0.06413	754.1166	6.47797	86.32339	0.42102	460.0265	1.03999	7129.135	5.88005	0.43	0.038	
		0.934019	2000	5.94948	0.11996	268.3346	3.77836	20.3354	0.10804	108.9601	0.58388	1639.863	1.69758	-0.964	0.29	
		0.96699	3000	6.99708	0.1287	454.6605	5.68967	24.5537	0.15979	140.1574	0.34009	2122.44	1.5855	0.347	0.241	
		1	4000	6.69066	0.12616	462.8071	4.61116	24.09586	0.3091	140.3252	0.4233	2001.525	2.67354	0.155	0.237	
B5A	MC03 b5a APA-10 Basalt	mass= 0.0111 J= 4.94E-04 +/- 1.42E-06 tot.gas.age= 0.154 +/- 0.141	F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.021155	100	74.0587	0.275	45.58473	1.08553	29.7933	0.26841	32.10206	0.13465	21659.1	10.99071	-6.265	2.285	
		0.075031	200	66.38821	0.28992	258.2884	4.42048	46.7672	0.32797	81.75726	0.18036	19428.77	3.43202	-2.061	0.936	
		0.141492	300	48.01759	0.17714	492.384	2.43101	29.85082	0.20684	100.8546	0.31211	14020.57	5.5352	-1.491	0.466	
		0.188002	400	35.66112	0.31649	316.8818	3.03831	14.57888	0.18581	70.57858	0.35931	10492.07	6.05907	-0.578	1.184	
		0.231118	500	30.20257	0.36988	235.8215	4.08614	11.93547	0.178	65.4287	0.40324	8840.775	4.40049	-1.146	1.491	
		0.277551	600	25.04528	0.19452	250.4672	2.90839	12.35328	0.25569	70.46162	0.30959	7456.38	4.20696	0.702	0.729	
		0.357533	800	23.44967	0.21367	491.5273	3.27156	20.08221	0.19813	121.373	0.31591	7115.52	3.59203	1.366	0.464	
		0.436618	1000	13.40819	0.13932	560.2238	3.75284	20.47208	0.13669	120.0114	0.23144	4054.133	2.71705	0.683	0.306	
		0.489422	1200	7.49523	0.11685	430.3773	4.91498	15.76327	0.18026	80.12947	0.42681	2330.908	2.23166	1.291	0.385	
		0.586793	1600	14.08575	0.15565	1186.217	5.63767	40.59152	0.36787	147.7605	0.5773	4250.769	2.79792	0.533	0.278	
		0.740446	2000	16.96484	0.19995	2149.271	8.44685	58.08685	0.23899	233.1687	0.74439	5108.281	4.10187	0.364	0.226	
		0.901944	3000	13.97714	0.11807	2322.027	5.53124	55.62938	0.28914	245.0727	0.64743	4308.823	3.90088	0.649	0.128	
		1	4000	9.61621	0.17474	1374.421	7.25542	33.49831	0.29973	148.7998	0.20572	3004.07	2.10944	0.973	0.309	
J41A	MI94 J41a Ni-11 Basalt	mass= 0.015 J= 9.64E-04 +/- 1.74E-06 tot.gas.age= 3.323 +/- 0.015	F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		-4.9E-05	100	-0.10665	0.11215	-1.84808	2.02855	0.52636	0.05875	-0.86406	0.13318	8.62185	1.14352	-82.656	71.082	
		0.003904	200	5.56289	0.09571	76.11695	5.17019	116.40162	0.31596	70.48398	0.60621	1736.137	7.4091	2.276	0.721	
		0.025931	300	13.90914	0.23454	343.2229	5.03181	423.94254	0.93427	392.7811	1.0331	4942.281	7.55415	3.681	0.308	
		0.067082	400	7.64491	0.11309	482.5449	8.14975	363.56203	1.03879	733.8036	1.13159	3648.77	6.07694	3.291	0.081	
		0.13849	500	5.98847	0.15957	729.8067	6.15187	324.93482	0.79212	1273.332	1.50999	4217.369	2.22112	3.34	0.064	
		0.237213	600	4.71738	0.14172	889.3605	6.34562	258.5573	0.85505	1760.409	1.12921	4824.116	4.96617	3.386	0.042	
		0.423684	800	5.49055	0.12199	1437.741	5.83167	259.79794	0.68863	3325.126	2.75243	7972.537	4.98065	3.318	0.019	
		0.60496	1000	4.06582	0.04978	1269.966	6.77698	166.28475	0.61692	3232.496	2.18783	7336.993	4.06913	3.298	0.009	
		0.726974	1200	2.39658	0.11518	933.9736	7.2145	84.02268	0.36832	2175.737	1.77255	4850.801	3.58671	3.308	0.027	
		0.814151	1600	1.85833	0.06609	861.0731	9.67229	39.3716	0.33005	1554.539	1.05071	3488.71	1.93211	3.286	0.022	
		0.862856	2000	0.9956	0.1262	1432.403	8.66753	24.32707	0.1304	868.4932	1.24483	1909.444	2.6152	3.232	0.075	
		0.943238	3000	1.35749	0.12531	5225.289	22.45984	58.0442	0.34366	1433.37	1.6285	3164.558	3.0717	3.35	0.045	

B8A	1	4000	0.95923	0.12286	3835.367	12.16076	45.03613	0.39094	1012.168	0.99745	2206.846	3.10327	3.302	0.063
MC03 b8a NI-12 BA	mass=	0.0111	J=	4.89E-04	+/-	1.39E-06	tot.gas.age=	1.031	+/-	0.047				
	F39	LasPowlW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.014435	100	9.70297	0.13857	49.33436	1.43766	8.38518	0.153	33.69085	0.27621	2900.161	3.1417	0.863	1.076
	0.059121	200	12.97982	0.21412	247.3861	3.45932	18.27711	0.21479	104.3007	0.77292	4038.999	13.39477	1.721	0.547
	0.12676	300	3.37828	0.12468	515.3607	3.90803	18.14055	0.16106	157.8732	0.219	1153.738	6.20757	0.869	0.209
	0.21743	400	1.64082	0.12627	670.4436	5.82184	15.5946	0.27206	211.6284	0.3917	721.0995	2.35335	0.985	0.156
	0.31414	500	1.26292	0.10749	639.2838	4.94345	12.29076	0.22717	225.7273	0.57039	607.9626	1.47223	0.918	0.124
	0.40252	600	0.56845	0.09552	501.8897	4.59437	8.99922	0.17904	206.2838	0.59193	476.3646	1.11817	1.319	0.121
	0.517248	800	1.09007	0.08347	581.2386	5.70238	11.08874	0.11015	267.7825	0.64779	630.4634	1.32593	1.016	0.081
	0.628643	1000	1.16203	0.08213	471.9195	4.46018	15.42209	0.25337	260.0019	0.74171	652.3954	0.82822	1.049	0.082
	0.736012	1200	1.48053	0.09797	468.1733	3.97883	22.23857	0.14949	250.6042	0.50396	764.0305	1.14044	1.15	0.102
	0.840848	1600	2.99413	0.13323	642.0954	5.14019	28.196	0.21728	244.6943	0.80125	1157.915	1.13276	0.985	0.142
	0.874689	2000	1.69865	0.06771	433.4462	3.96806	11.71931	0.17118	78.98623	0.42198	575.7793	0.87999	0.825	0.224
	0.921139	3000	2.29387	0.09091	830.4745	6.86413	16.15237	0.17269	108.418	0.30726	742.2398	0.95555	0.524	0.219
	1	4000	2.80903	0.05317	1022.448	7.21668	27.62258	0.29847	184.0653	0.33844	1029.885	1.05834	0.958	0.076
B9A	mass=	0.0113	J=	4.90E-04	+/-	1.41E-06	tot.gas.age=	0.008	+/-	0.032				
MC03 b9a NI-14 Basalt	F39	LasPowlW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.021646	100	11.20298	0.18761	38.18446	2.06926	20.95256	0.106	86.65971	0.52835	3219.75	3.11799	-0.926	0.567
	0.101488	200	14.6307	0.18707	280.6803	3.31797	74.61067	0.31432	319.6565	0.79342	4270.461	3.54159	-0.146	0.153
	0.231249	300	12.34046	0.14952	678.3251	4.12424	113.22977	0.27347	519.508	0.70746	3602.426	3.90819	-0.075	0.075
	0.394824	400	9.26748	0.15206	966.2199	4.46193	117.50863	0.35718	654.8823	0.72084	2775.188	0.83149	0.049	0.061
	0.555688	500	7.03118	0.08462	930.9887	8.33173	94.7661	0.3008	644.0325	0.69694	2094.754	1.78194	0.023	0.034
	0.686085	600	5.33564	0.08814	753.7749	4.23742	62.38934	0.40979	522.0528	0.86367	1591.712	0.98223	0.025	0.044
	0.814646	800	5.97293	0.12702	813.0086	5.49679	58.23646	0.20572	514.7063	0.67992	1815.961	1.85894	0.088	0.065
	0.895113	1000	5.75636	0.10976	604.697	3.34861	49.66065	0.27242	322.1572	0.6496	1730.857	2.12562	0.082	0.089
	0.938733	1200	5.65618	0.16876	376.2833	3.48956	37.56514	0.18456	174.633	0.74352	1643.659	2.35712	-0.14	0.253
	0.955308	1600	3.34744	0.10361	235.9152	4.44951	16.06192	0.13114	66.35925	0.21671	1056.29	1.53861	0.894	0.408
	0.960843	2000	1.46257	0.11073	95.64536	3.09614	5.597	0.13223	22.15935	0.19972	426.7725	0.81439	-0.216	1.306
	0.973711	3000	2.73087	0.12517	218.2401	3.42157	13.39768	0.12662	51.51878	0.32571	798.6466	0.98172	-0.143	0.635
	1	4000	5.04208	0.09093	373.4639	3.85828	28.99467	0.26181	105.251	0.47127	1539.572	1.8286	0.417	0.226
B11B	mass=	0.0087	J=	4.91E-04	+/-	1.37E-06	tot.gas.age=	-0.096	+/-	0.049				
MC03 b11b NI-16 BA	F39	LasPowlW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.013502	100	5.13263	0.11562	20.36266	7.02838	6.78969	0.15697	26.64812	0.17554	1507.577	1.50021	-0.303	1.137
	0.068788	200	11.86979	0.12994	126.5375	9.78641	23.26372	0.19298	109.1128	0.30294	3423.267	2.96637	-0.684	0.313
	0.158539	300	11.70376	0.13822	360.4041	12.95573	34.0606	0.29158	177.1336	0.612	3416.275	3.3983	-0.211	0.205
	0.274878	400	11.0488	0.11579	535.7199	12.73442	38.93464	0.29747	229.6063	0.79461	3190.738	2.80432	-0.286	0.133
	0.403516	500	8.86579	0.11844	635.1176	16.05131	37.56349	0.31857	253.8816	0.45335	2625.558	2.12637	0.02	0.122
	0.531248	600	6.68551	0.08982	649.7936	15.41832	31.85471	0.18254	252.0928	0.73698	1956.13	1.79854	-0.068	0.094
	0.692762	800	6.28217	0.05163	888.441	11.04934	32.43495	0.3286	318.7664	0.71759	1809.813	0.81489	-0.129	0.043
	0.812883	1000	4.3249	0.06247	689.255	8.64101	24.50812	0.16389	237.0721	0.81267	1319.114	1.22939	0.154	0.069
	0.881614	1200	3.19267	0.09904	423.8314	12.11849	18.70721	0.17479	135.6471	0.32638	985.6779	1.69922	0.276	0.192
	0.925492	1600	3.66769	0.12052	298.2338	12.4311	17.5909	0.11343	86.59771	0.28915	1067.582	1.46144	-0.166	0.365
	0.940067	2000	2.16537	0.07574	139.9804	10.52943	8.60393	0.13927	28.76608	0.19613	650.8478	1.52959	0.338	0.691
	0.961212	3000	3.18936	0.0904	285.2223	9.57868	11.84994	0.13515	41.73244	0.35074	919.2242	2.67638	-0.493	0.57
	1	4000	4.24068	0.07965	341.9237	14.56189	22.13171	0.12729	76.55194	0.13675	1254.792	2.95151	0.019	0.275
R29A	mass=	0.0105	J=	4.97E-04	+/-	9.65E-07	tot.gas.age=	38.114	+/-	0.09				
R29a NI-20 Dacite	F39	LasPowlW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.005615	100	27.31999	0.11554	19.50534	0.92238	6.08881	0.09603	24.11849	0.13651	8334.918	3.49716	9.714	1.271
	0.025677	200	79.35713	0.35799	59.63087	1.11748	16.89289	0.19561	86.17891	0.34405	26812.58	4.63518	34.67	1.09
	0.063689	300	78.62083	0.47475	100.2643	1.24795	16.15451	0.1691	163.2841	0.62575	30211.7	6.38352	37.945	0.769
	0.113656	400	43.03757	0.21904	131.5773	1.75979	9.2989	0.13113	214.6395	0.2944	21665.1	7.10157	37.017	0.271
	0.173303	500	22.18127	0.18406	158.5982	1.52401	5.59797	0.1423	256.2207	0.41675	17797.29	6.68499	38.943	0.198

		0.243137	600	14.77896	0.16785	183.6904	0.84802	4.47361	0.21871	299.9812	0.63512	17650.33	6.34883	39.295	0.168
		0.358218	800	23.98548	0.15271	273.5927	1.76618	9.48493	0.17726	494.3419	1.26304	29197.99	9.19977	39.687	0.129
		0.476598	1000	14.16158	0.08448	269.3718	2.24131	11.29818	0.16205	508.5152	0.78824	26718.97	7.10358	39.325	0.075
		0.579832	1200	4.33728	0.12449	244.9828	1.94788	13.7228	0.29396	443.4516	0.98599	20846.74	8.64267	39.155	0.114
		0.720601	1600	5.05091	0.15406	446.8068	2.48997	30.86515	0.25354	604.6888	0.75004	27657.47	7.35494	38.408	0.082
		0.834475	2000	5.83261	0.10522	601.064	1.54395	32.50291	0.38216	489.1605	1.18616	22658.32	9.19384	37.993	0.108
		0.930717	3000	12.20522	0.1604	1463.55	3.24109	49.6368	0.35413	413.4157	0.84166	20555.65	8.28695	36.411	0.126
		1	4000	10.1019	0.15962	1224.319	4.46816	41.53372	0.228	297.6141	0.47937	15084.54	6.85931	36.11	0.152
B14A	MC03 b14a TAN-3 Basalt	mass=	0.012	J=	4.96E-04	+/-	1.30E-06	tot.gas.age=	0.268	+/-	0.037				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.033637	100	6.7916	0.08808	53.71754	1.78046	17.66444	0.11871	89.40622	0.43135	2009.937	2.13402	0.03	0.261
		0.145311	200	9.44387	0.1528	276.2528	4.29627	54.02972	0.37154	296.8307	0.74009	2842.67	5.02975	0.157	0.137
		0.290078	300	4.3494	0.09108	556.4712	2.36222	67.77718	0.28149	384.7937	0.51676	1419.329	1.05333	0.311	0.063
		0.445147	400	2.33834	0.07818	875.8782	5.22939	68.23543	0.3153	412.1737	0.70059	818.722	2.01435	0.277	0.05
		0.58141	500	1.9804	0.0678	1073.922	5.6621	56.96522	0.27295	362.189	0.74882	638.8554	1.68874	0.132	0.05
		0.682671	600	1.33251	0.07543	1050.292	6.32137	42.9665	0.13126	269.1526	0.59291	433.4792	1.09814	0.132	0.074
		0.760033	800	1.04516	0.09866	1123.188	7.98599	37.29797	0.28974	205.628	0.50588	368.6607	1.1571	0.26	0.127
		0.806165	1000	0.63772	0.11311	734.557	4.5803	22.72426	0.13868	122.6184	0.57237	245.9182	0.89453	0.419	0.244
		0.848715	1200	1.03554	0.08673	573.7901	4.37369	20.7184	0.22397	113.1	0.40067	346.0099	1.05611	0.316	0.203
		0.894999	1600	1.18139	0.11521	691.3922	5.55095	23.08365	0.17651	123.0219	0.55407	355.8924	0.99531	0.049	0.248
		0.926542	2000	0.52205	0.0857	448.7009	2.79889	16.63392	0.27046	83.84216	0.19135	199.3428	0.84728	0.481	0.27
		0.960382	3000	0.42817	0.14053	531.7484	5.56583	16.89156	0.12613	89.94712	0.31455	253.1631	1.10313	1.258	0.413
		1	4000	1.08567	0.10986	635.2411	5.07364	19.29802	0.15313	105.3045	0.50669	370.3013	0.81203	0.42	0.276
B16B	MC03 b16b TAN-7 BA	mass=	0.0124	J=	4.93E-04	+/-	1.38E-06	tot.gas.age=	0.243	+/-	0.04				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.014056	100	11.28193	0.12571	21.08585	9.08214	15.05123	0.15829	71.35531	0.50278	3340.103	2.02961	0.078	0.464
		0.084544	200	40.08974	0.32059	104.7029	8.99577	69.83557	0.28625	357.8308	0.74712	11890.94	6.95764	0.11	0.236
		0.206168	300	53.05573	0.29342	264.3702	15.49099	114.61258	0.23875	617.424	0.86828	15601	3.56314	-0.111	0.125
		0.35857	400	56.11102	0.27114	462.1078	10.61877	140.81972	0.57106	773.6694	1.72069	16621.9	3.34795	0.047	0.092
		0.520714	500	52.93452	0.25988	708.268	15.35336	147.71735	0.40083	823.1199	0.97933	15735.22	7.48064	0.101	0.083
		0.663214	600	41.6967	0.29485	826.638	19.07483	124.86765	0.34338	723.4021	1.4945	12572.68	4.08615	0.309	0.107
		0.818591	800	39.25679	0.18761	1376.17	19.5868	127.10265	0.3313	788.7706	1.27629	12020.41	3.761	0.474	0.063
		0.912093	1000	20.56214	0.1975	1325.341	19.90116	69.86685	0.41881	474.6627	1.00502	6351.045	2.21966	0.515	0.109
		0.954971	1200	7.79111	0.13825	991.5087	15.53419	31.91737	0.31057	217.6674	0.62384	2498.644	3.50244	0.802	0.168
		0.981213	1600	4.73723	0.20506	841.7187	14.63198	26.22186	0.18055	133.2203	0.64687	1469.735	1.53295	0.467	0.405
		0.991913	2000	2.98075	0.09914	449.6237	19.45725	15.43758	0.12421	54.31683	0.37305	912.8936	1.41386	0.525	0.481
		0.996054	3000	1.9393	0.08848	372.9857	19.9723	6.47191	0.06783	21.02462	0.24936	599.8343	1.18236	1.132	1.109
		1	4000	1.61798	0.1102	326.0468	19.78922	5.25318	0.11272	20.02983	0.1177	486.7345	1.33344	0.383	1.449
B19A	MC03 b19a TAN-13 Basalt	mass=	0.0115	J=	4.95E-04	+/-	1.30E-06	tot.gas.age=	0.754	+/-	0.033				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.000425	100	12.80941	0.11786	-1.07163	1.68388	2.77377	0.08796	1.16894	0.06922	3712.527	1.78937	-56.418	27.717
		0.003257	200	2.9922	0.08828	3.54774	1.37151	2.31237	0.07451	7.7818	0.14548	938.5182	1.66364	6.228	2.994
		0.008846	300	0.78591	0.08473	11.7129	1.65625	3.55701	0.0664	15.36274	0.17787	212.9474	0.62741	-1.123	1.458
		0.01707	400	0.72653	0.06733	22.12164	1.82216	5.07645	0.16388	22.60408	0.17991	196.2936	1.10382	-0.727	0.788
		0.027685	500	0.28126	0.1153	31.50061	3.17912	6.23066	0.08842	29.17753	0.26877	129.7885	0.73129	1.429	1.043
		0.041377	600	2.11995	0.082	48.19113	2.48848	8.15729	0.1319	37.63528	0.21309	643.5745	1.37411	0.407	0.576
		0.068152	800	1.57281	0.07796	113.5071	2.90998	15.31065	0.09794	73.59273	0.54645	541.306	0.9305	0.929	0.28
		0.104497	1000	17.71903	0.16007	160.9621	3.29631	23.35851	0.10351	99.89852	0.41353	5346.14	3.13408	0.985	0.424
		0.156222	1200	0.42025	0.08009	228.1013	3.64926	30.03471	0.28624	142.1723	0.45427	222.7214	0.71971	0.619	0.149
		0.370301	1600	13.19714	0.14321	954.2647	5.12563	132.00914	0.43357	588.418	0.76258	4423.887	1.94493	0.796	0.064
		0.70871	2000	0.80607	0.05326	1524.656	7.56531	194.94503	0.57073	930.1552	0.86821	1041.442	1.84061	0.772	0.015
		0.892843	3000	0.29813	0.03924	876.9705	6.19387	109.16565	0.23611	506.108	1.26554	515.3912	1.23961	0.754	0.021
		1	4000	0.13791	0.0652	530.5574	3.22002	61.21846	0.33656	294.5331	0.57453	311.194	0.53875	0.82	0.058

	mass=	0.0087	J=	4.94E-04	+-	1.33E-06	tot.gas.age=	0.349	+-	0.04					
	F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr	
B20A MC03 b20a TAN-15 Andesite															
	0.01719	100	6.17965	0.13316	26.46476	2.01918	7.9406	0.13632	45.4872	0.33707	1888.094	2.31262	1.214	0.771	
	0.080471	200	6.12141	0.17003	223.9214	2.2923	24.05066	0.19713	167.4454	0.498	1929.067	2.08436	0.639	0.267	
	0.181709	300	3.47821	0.05243	461.5016	4.66492	30.44619	0.28791	267.8845	0.85503	1162.269	2.07567	0.447	0.052	
	0.307625	400	2.89076	0.13303	648.3142	5.74511	31.33136	0.32436	333.1853	0.45021	991.1035	1.15189	0.366	0.105	
	0.440728	500	2.76851	0.1122	702.0726	5.14207	27.38417	0.16533	352.2027	0.84354	919.2461	1.57721	0.256	0.084	
	0.561918	600	2.42268	0.10855	663.6666	4.28516	23.12725	0.1943	320.6771	0.78079	850.7152	0.85134	0.374	0.089	
	0.704068	800	3.15065	0.10794	839.2301	4.56665	27.06683	0.20956	376.1412	0.62846	1082.695	1.10932	0.359	0.076	
	0.788956	1000	2.63938	0.08426	528.5059	4.59391	18.12481	0.19722	224.6221	0.5823	846.2479	1.21853	0.263	0.099	
	0.837506	1200	2.34898	0.09119	289.0551	3.56362	11.77494	0.22959	128.4674	0.49075	738.336	1.12918	0.306	0.187	
	0.871376	1600	2.34203	0.09231	230.4774	3.41262	11.68539	0.14458	89.62255	0.43973	739.2019	1.2992	0.468	0.271	
	0.887396	2000	1.63719	0.07349	132.5529	2.834	7.9959	0.13809	42.39191	0.41752	469.6513	0.90217	-0.297	0.457	
	0.916674	3000	3.22406	0.1373	293.9852	2.58685	16.94031	0.13372	77.47121	0.43338	970.7242	1.32369	0.207	0.467	
	1	4000	10.06401	0.11852	749.1499	7.72106	46.87593	0.25665	220.4878	0.44565	3007.536	2.58539	0.136	0.142	
B22A MC03 b22a TAN-23 Basalt	mass=	0.0127	J=	4.91E-04	+-	1.43E-06	tot.gas.age=	-0.012	+-	0.033					
	F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr	
	0.014372	100	4.69616	0.10532	33.36498	3.58743	13.20395	0.10624	46.06026	0.22312	1373.777	1.05023	-0.268	0.6	
	0.093684	200	9.80206	0.12892	178.2937	3.77641	67.69565	0.47586	254.1762	0.83495	2871.868	2.78033	-0.086	0.133	
	0.224631	300	8.33781	0.10803	442.9623	3.57468	112.05775	0.4015	419.6524	0.84477	2411.382	1.66553	-0.111	0.068	
	0.376433	400	6.60625	0.15538	758.2772	3.2303	135.73134	0.48401	486.4913	0.67941	1936.274	1.58903	-0.029	0.084	
	0.532297	500	4.99717	0.08154	1071.867	6.56956	142.8194	0.50055	499.506	0.41043	1474.668	1.85024	-0.004	0.043	
	0.664371	600	3.28746	0.09939	1096.702	7.86958	124.68297	0.40561	423.2678	1.15542	957.2946	1.24447	-0.03	0.062	
	0.800179	800	3.06246	0.12516	1410.599	10.93259	136.8786	0.3701	435.2301	0.53443	923.45	1.49289	0.038	0.075	
	0.884017	1000	1.91927	0.14606	1008.565	8.7136	92.45138	0.33672	268.6833	0.77788	548.8386	1.4623	-0.06	0.143	
	0.929756	1200	1.69038	0.09575	660.7712	6.39962	53.76111	0.19987	146.5814	0.58253	495.7382	1.08073	-0.023	0.171	
	0.951971	1600	1.75811	0.14222	540.3174	6.01734	24.3408	0.18661	71.19468	0.44811	509.709	0.97519	-0.122	0.524	
	0.962677	2000	0.67056	0.09793	410.867	5.17816	11.35357	0.10761	34.31078	0.30796	229.9042	0.96465	0.82	0.748	
	0.981892	3000	0.85975	0.07169	737.7976	4.03413	19.43072	0.16397	61.57732	0.30136	264.4941	0.63179	0.15	0.305	
	1	4000	1.42922	0.06636	670.379	5.34616	17.47753	0.17684	58.03276	0.29668	473.1689	1.1303	0.776	0.3	
B27A MC03 b27a TAN-35 Dacite	mass=	0.0119	J=	4.97E-04	+-	1.28E-06	tot.gas.age=	0.917	+-	0.016					
	F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr	
	0.00728	100	13.11103	0.11037	18.56626	1.69749	3.13398	0.08245	55.26217	0.33992	3855.799	3.15422	-0.3	0.532	
	0.065732	200	28.71139	0.17562	171.0161	2.90798	9.38141	0.19572	443.71	0.62006	8707.338	2.89385	0.451	0.105	
	0.132552	300	4.64861	0.08791	236.1379	4.79399	4.42983	0.11381	507.2352	1.095	1804.874	1.61706	0.762	0.046	
	0.225126	400	0.88151	0.07732	332.1063	3.30229	3.23455	0.19	702.7243	0.81545	1107.021	1.31062	1.08	0.029	
	0.346994	500	0.46503	0.08685	409.2408	4.1721	2.59829	0.14646	925.1082	0.86938	1250.251	2.13939	1.078	0.025	
	0.486416	600	0.47419	0.08544	467.2883	4.26439	2.63227	0.1801	1058.349	1.10196	1344.741	1.62591	1.02	0.021	
	0.687266	800	0.93291	0.08985	710.4482	6.70402	4.80982	0.17646	1524.662	1.17858	1925.227	2.04446	0.97	0.016	
	0.831119	1000	1.06275	0.09692	610.1332	5.58678	5.39755	0.15624	1092.528	1.21354	1466.446	1.14073	0.946	0.024	
	0.910568	1200	2.15331	0.07481	436.1436	3.69161	5.20481	0.17536	602.5598	0.95791	1227.811	1.24294	0.88	0.033	
	0.959998	1600	3.59706	0.14626	408.4354	2.85481	9.64613	0.20608	375.2217	0.71679	1431.994	0.81308	0.882	0.103	
	0.972913	2000	4.24565	0.15099	203.5665	3.2886	9.06309	0.18699	98.03739	0.6217	1319.017	1.63404	0.589	0.408	
	0.987511	3000	9.83138	0.16617	366.8487	4.82347	34.18494	0.28344	110.8138	0.44968	2971.816	2.22496	0.539	0.398	
	1	4000	9.71833	0.19413	346.0708	3.96924	45.0115	0.34745	94.80498	0.48047	2945.399	1.97502	0.696	0.543	
B28A MC03 b28a TAN-36 Andesite	mass=	0.0091	J=	4.98E-04	+-	1.28E-06	tot.gas.age=	6.461	+-	0.033					
	F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr	
	0.002155	100	17.50885	0.19412	6.61066	1.82241	4.40785	0.10687	11.22709	0.18151	5210.704	3.60613	2.943	4.588	
	0.0131	200	71.13861	0.22973	59.29784	2.58816	15.36204	0.14674	57.01464	0.27002	21271.51	7.70789	3.932	1.073	
	0.036533	300	46.42285	0.31619	162.1947	4.542	12.75581	0.21705	122.0653	0.46752	14711.21	8.16699	7.289	0.688	
	0.077148	400	14.93645	0.10744	291.8263	4.42758	8.67954	0.16187	211.5684	0.49543	5961.43	4.11028	6.555	0.136	
	0.137182	500	5.43524	0.12285	374.5791	4.33436	7.44044	0.17457	312.729	0.65283	3882.297	3.50521	6.521	0.105	
	0.210363	600	2.97939	0.09421	377.9678	4.25658	6.43136	0.16429	381.2123	0.83665	3768.054	3.55365	6.787	0.068	

		0.349395	800	4.71494	0.117	543.4042	5.56886	9.56376	0.14188	724.2391	0.54033	6800.237	3.46115	6.689	0.043
		0.5155	1000	4.11867	0.0891	465.0165	5.90693	12.36521	0.28436	865.2685	0.86759	7493.936	3.47465	6.5	0.028
		0.658677	1200	2.96221	0.0898	346.163	3.0267	15.82066	0.20597	745.8294	1.35105	6289.837	4.17294	6.505	0.034
		0.76802	1600	5.3591	0.11599	304.9053	3.19607	20.06535	0.30299	569.5853	0.87545	5651.422	3.8132	6.399	0.055
		0.81868	2000	4.48185	0.07848	421.5836	4.65386	16.06707	0.14221	263.8983	0.61443	3096.836	2.01635	6.019	0.08
		0.930683	3000	9.3945	0.09114	1421.096	9.03582	45.29004	0.17999	583.4421	0.44341	6890.81	2.02634	6.319	0.042
		1	4000	4.47678	0.13325	1030.002	10.22694	29.376	0.19861	361.0815	1.09404	3842.435	1.73464	6.253	0.099
B30A	MC03 b30a TAN-40 Basalt	mass=	0.0121	J=	4.94E-04	+/-	1.34E-06 tot.gas.age=	-0.15	+/-	0.058					
		F39	LasPownW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.001414	100	2.15082	0.08927	1.46079	2.38211	1.19932	0.08025	2.38802	0.13686	657.8287	1.08384	8.286	9.816
		0.009085	200	3.66133	0.101	6.97792	2.19658	5.80148	0.14145	12.95476	0.16203	1120.106	1.40818	2.624	2.052
		0.025492	300	2.36636	0.10265	27.68331	3.34239	11.17303	0.2025	27.70978	0.23361	686.6632	1.20149	-0.405	0.976
		0.047603	400	1.27992	0.0725	40.3903	1.99628	14.70321	0.18373	37.34303	0.35386	365.2698	0.87342	-0.309	0.512
		0.074218	500	0.77902	0.07686	60.03522	2.46399	16.94188	0.23534	44.94921	0.32148	233.1949	0.80414	0.059	0.45
		0.104276	600	0.7301	0.08561	82.40075	2.51803	19.17125	0.19049	50.764	0.3086	178.9006	0.78922	-0.647	0.444
		0.153148	800	1.05593	0.07547	181.2591	2.80727	30.99509	0.19819	82.5383	0.2805	239.1513	1.03794	-0.787	0.241
		0.208084	1000	1.1497	0.07433	239.7508	4.03685	34.7367	0.19246	92.77992	0.44298	313.4222	0.86333	-0.253	0.211
		0.265478	1200	0.9809	0.07525	266.7264	3.68455	35.40429	0.29076	96.93157	0.34548	277.2618	1.07747	-0.116	0.205
		0.345508	1600	18.1576	0.13244	375.787	5.53167	54.86735	0.24656	135.1605	0.62405	5369.322	4.52683	0.025	0.26
		0.47704	2000	33.62072	0.15643	624.6761	5.78501	90.59882	0.29478	222.1405	0.64288	9788.515	4.55483	-0.587	0.186
		0.751888	3000	9.9861	0.12409	1320.63	10.51593	178.50177	0.47885	464.183	1.00518	2927.793	1.15528	-0.044	0.07
		1	4000	5.87984	0.12839	1196.255	5.98927	159.44512	0.52348	419.0296	0.74996	1730.535	2.12762	-0.015	0.081
B31A	MC03 b31a TAN-41B Andesite	mass=	0.0084	J=	4.96E-04	+/-	1.27E-06 tot.gas.age=	-1.479	+/-	0.395					
		F39	LasPownW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.003807	100	690.1171	0.85909	-33.3587	2.20766	130.55718	0.41167	7.90722	0.25473	203111.2	70.88264	-95.165	31.629
		0.035119	200	1206.825	1.52666	-7.43213	2.70697	238.17108	0.64646	65.04295	0.52596	355527.5	110.8444	-15.063	6.452
		0.087572	300	229.9374	0.4523	28.1694	2.65037	67.77589	0.24977	108.9549	0.53503	67145.91	13.59925	-6.593	1.109
		0.154412	400	146.3196	0.46779	93.62755	2.69785	68.01612	0.23349	138.8419	0.48319	43002.02	9.15118	-1.519	0.894
		0.223228	500	206.1058	0.35225	149.1304	3.72984	86.69385	0.52235	142.945	0.27981	60905.98	17.72122	0.011	0.662
		0.292806	600	426.5174	1.08517	283.7762	3.06619	134.04673	0.4944	144.527	0.32628	125939.6	42.72139	-0.597	2.005
		0.396356	800	1088.844	1.64789	551.8482	5.19046	295.80466	0.80745	215.0946	0.616	321761.6	95.74818	0.035	2.066
		0.516835	1000	701.2391	0.84074	747.7716	5.5102	245.95883	0.44817	250.2613	0.70819	206820.3	80.00095	-1.417	0.935
		0.652247	1200	486.0817	0.82201	852.3292	4.03863	219.69212	0.73386	281.2795	0.72355	143589.3	54.57363	-0.152	0.793
		0.867511	1600	124.5211	0.48014	1312.581	7.52425	225.79184	0.67745	447.1484	0.5284	36845.44	9.5526	0.099	0.285
		0.925503	2000	22.55338	0.13887	421.8079	5.00539	57.59045	0.19251	120.462	0.68066	6652.329	2.33113	-0.091	0.306
		0.962908	3000	7.7249	0.11656	304.4434	3.23283	37.50219	0.32633	77.697	0.21124	2304.129	2.10037	0.247	0.398
		1	4000	4.89585	0.06771	313.4607	2.92241	38.36732	0.26265	77.04817	0.41621	1432.651	2.60545	-0.164	0.235
R30A	R30a TAN-44 Dacite	mass=	0.0095	J=	5.00E-04	+/-	9.21E-07 tot.gas.age=	33.418	+/-	0.077					
		F39	LasPownW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.004797	100	137.6541	0.34754	7.76141	0.55952	26.37974	0.19185	51.8172	0.26153	41198.75	8.1799	9.055	1.783
		0.024795	200	306.3888	0.68921	30.46042	0.8592	58.64755	0.45296	216.0527	0.6599	95721.18	51.20425	21.491	0.868
		0.078564	300	321.1441	0.54573	65.34173	0.65535	62.80919	0.50685	580.8708	1.22848	112761	49.29606	27.501	0.264
		0.164613	400	289.4686	0.63514	55.54778	0.73799	56.02217	0.37965	929.6066	1.53021	119973.5	45.13605	33.076	0.191
		0.264765	500	202.6726	0.46586	51.32898	0.82752	39.05795	0.38715	1081.962	0.90343	102176.5	56.84257	34.881	0.125
		0.353433	600	108.9644	0.31441	42.14824	0.88421	22.22456	0.19587	957.8972	1.30121	70242.62	39.61378	35.439	0.105
		0.446538	800	122.1123	0.49211	54.64789	0.86971	24.3462	0.15872	1005.839	1.56712	75822.61	34.33133	35.255	0.142
		0.510139	1000	110.6875	0.24196	34.26779	0.76369	22.59721	0.14526	687.0905	0.929	59369.86	15.97531	34.633	0.105
		0.566435	1200	101.0421	0.38883	35.03792	0.77936	21.22527	0.27048	608.1817	0.6174	53576.2	14.51269	34.806	0.172
		0.667672	1600	126.1646	0.42387	80.72909	1.02944	28.62309	0.20489	1093.68	1.63258	79097.09	30.19667	34.129	0.116
		0.791722	2000	149.229	0.30117	107.3214	0.89489	34.64728	0.20697	1340.148	1.60465	94971.56	45.79135	33.889	0.077
		0.917176	3000	327.5035	0.71955	167.295	1.7203	75.0548	0.33108	1355.299	1.47263	147292.6	72.80719	33.279	0.151
		1	4000	425.667	0.54886	145.9017	0.75938	96.51513	0.42443	894.7689	1.30845	158481.6	62.54234	32.633	0.178
B33B		mass=	0.009	J=	4.95E-04	+/-	1.39E-06 tot.gas.age=	0.036	+/-	0.069					

	F39	LasPownW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
MC03 b33b UR-1A Basalt	0.02662	100	1.98705	0.0934	54.6058	8.67695	8.16995	0.12183	37.82342	0.27974	583.6862	1.26691	-0.082	0.652
	0.109842	200	3.74491	0.09244	152.5172	8.36198	24.90079	0.25142	118.2476	0.59513	1096.512	2.19779	-0.076	0.207
	0.224662	300	3.72577	0.10612	237.2463	8.65365	34.14144	0.39104	163.1436	0.59344	1096.231	1.71309	-0.026	0.172
	0.352174	400	3.51067	0.11272	499.5683	10.90521	35.86882	0.29742	181.1791	0.46137	1058.377	0.81759	0.103	0.164
	0.469443	500	2.76725	0.10309	502.1651	11.12718	32.38023	0.24003	166.6233	0.669	807.7115	1.4002	-0.054	0.163
	0.572409	600	2.14676	0.07636	572.2866	14.31282	26.58811	0.28449	146.301	0.49825	631.6468	1.40568	-0.017	0.138
	0.686624	800	2.14815	0.08425	869.7123	19.29956	28.47918	0.2683	162.2849	0.49228	653.9026	1.27795	0.105	0.137
	0.767437	1000	1.60957	0.07056	801.1292	12.82995	18.75713	0.21331	114.8249	0.64633	482.6428	1.39954	0.055	0.173
	0.822966	1200	1.2754	0.10282	611.4012	15.51055	12.49513	0.14805	78.89851	0.3411	374.9521	0.67299	-0.022	0.344
	0.880672	1600	1.13881	0.10651	707.8046	16.055	12.71992	0.14681	81.99384	0.40824	339.2849	0.89733	0.03	0.343
	0.920423	2000	0.78293	0.12269	562.233	14.04496	7.99416	0.10496	56.48058	0.14618	244.4006	0.58197	0.206	0.573
	0.953348	3000	0.50286	0.10539	580.2576	9.57564	7.17941	0.14184	46.78199	0.33454	198.208	0.94326	0.946	0.594
	1	4000	0.78643	0.13424	806.7382	11.918	11.38521	0.14036	66.28635	0.36706	209.5472	0.68643	-0.308	0.535
B35B	mass=	0.0143	J=	4.97E-04	+/-	1.34E-06	tot.gas.age=	-0.075	+/-	0.033				
MC03 b35b UR-7B BA	F39	LasPownW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.003847	100	7.06368	0.1203	7.23169	10.86344	4.76455	0.12125	17.3671	0.25909	2052.495	2.11202	-1.797	1.839
	0.024959	200	5.66249	0.11229	44.36434	13.22034	19.98404	0.21503	95.30754	0.43138	1701.652	2.06005	0.267	0.313
	0.067322	300	5.86901	0.15867	284.7398	14.63177	37.97534	0.27639	191.2475	0.73624	1725.21	2.14418	-0.043	0.22
	0.123529	400	5.0589	0.07463	289.4816	11.45777	50.11753	0.2997	253.7473	0.64612	1471.031	1.61179	-0.084	0.078
	0.189221	500	5.70997	0.14611	401.8404	13.34269	56.90815	0.3333	296.5639	0.67004	1619.854	2.35864	-0.204	0.131
	0.259112	600	5.68345	0.14388	524.9573	9.19716	58.45531	0.27779	315.5217	0.5575	1645.268	2.05199	-0.097	0.121
	0.353665	800	8.38787	0.13597	911.0009	14.59479	81.74734	0.31898	426.8607	1.15748	2430.041	1.35334	-0.102	0.084
	0.439891	1000	8.24903	0.17841	898.2289	16.78475	80.54562	0.41637	389.2657	0.70716	2415.062	2.50741	-0.052	0.122
	0.507425	1200	7.60505	0.17797	698.4338	14.32957	69.95679	0.26676	304.8788	0.80038	2263.298	1.34448	0.047	0.155
	0.607318	1600	12.55543	0.18046	913.5554	16.10825	110.70442	0.35365	450.9653	0.83413	3681.568	1.62182	-0.057	0.106
	0.77993	2000	16.42936	0.18502	1329.549	15.74268	190.51234	0.55566	779.2568	1.17018	4748.673	1.78404	-0.122	0.063
	0.933633	3000	24.45154	0.16978	1596.157	14.33253	170.87378	0.64156	693.8873	0.94157	7175.777	2.36021	-0.064	0.065
	1	4000	12.5942	0.1859	910.6039	17.747	74.45525	0.37482	299.6153	0.87796	3724.561	1.6266	0.009	0.164
B36B	mass=	0.0099	J=	4.93E-04	+/-	1.36E-06	tot.gas.age=	-0.057	+/-	0.026				
MC03 b36b UR-8B Basalt	F39	LasPownW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.013156	100	3.86738	0.10228	32.01246	8.21351	14.36018	0.15955	59.7713	0.26328	1135.281	1.76849	-0.112	0.45
	0.065398	200	9.56055	0.1464	151.7596	6.98001	54.1066	0.45859	237.3545	0.58774	2687.917	1.87619	-0.514	0.162
	0.16096	300	11.3555	0.1014	396.0322	7.61963	85.35693	0.34498	434.1749	0.94979	3356.487	2.65109	0.002	0.062
	0.275871	400	10.18922	0.07583	532.8631	12.21976	73.98896	0.42943	522.0805	0.94902	2976.733	3.06174	-0.058	0.039
	0.399402	500	8.12364	0.15139	585.569	8.93124	51.55286	0.36773	561.2439	1.23888	2414.433	2.73479	0.022	0.071
	0.523139	600	6.45148	0.10253	573.6003	14.34392	33.57411	0.20071	562.182	0.975	1899.55	2.08616	-0.011	0.048
	0.692269	800	7.13003	0.11056	868.0736	15.66998	33.06023	0.20249	768.4163	0.91612	2023.98	2.63561	-0.096	0.038
	0.812614	1000	5.24172	0.12301	726.2633	11.08874	24.80163	0.21489	546.7701	0.79075	1527.701	1.38149	-0.035	0.059
	0.887104	1200	4.3235	0.11068	501.2101	9.76362	18.99464	0.24348	338.4341	0.84186	1251.238	1.37186	-0.069	0.086
	0.944478	1600	5.13631	0.21309	553.8743	7.47086	18.06984	0.20495	260.6738	0.64132	1532.569	1.6548	0.05	0.215
	0.966989	2000	3.16676	0.11965	343.726	11.15174	8.55903	0.10429	102.2738	0.35279	953.7393	0.85006	0.156	0.307
	0.980719	3000	2.61113	0.10539	499.8831	14.77313	6.57141	0.09275	62.38299	0.24934	734.9248	1.11614	-0.522	0.445
	1	4000	1.81911	0.07945	750.5313	15.74849	9.37374	0.16064	87.59856	0.46472	553.6166	1.46574	0.163	0.239
B37B	mass=	0.013	J=	4.96E-04	+/-	1.33E-06	tot.gas.age=	-0.07	+/-	0.02				
MC03 b37b UR-10 Andesite	F39	LasPownW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
	0.004261	100	2.47363	0.0897	9.58359	12.4585	3.24161	0.13505	22.34876	0.19196	712.6918	1.42949	-0.731	1.063
	0.02845	200	2.82809	0.09202	48.62814	6.87146	13.11978	0.17591	126.855	0.42452	812.9168	1.29038	-0.161	0.192
	0.071188	300	2.60206	0.11701	103.7661	9.06566	22.71276	0.22102	224.1437	0.32008	785.0034	1.64322	0.064	0.138
	0.12755	400	3.12403	0.08744	191.37	8.62233	29.88616	0.16492	295.5914	0.59114	879.6785	1.04459	-0.131	0.078
	0.195044	500	3.6084	0.0996	285.7823	7.08363	35.65155	0.10633	353.968	0.64602	986.797	1.64322	-0.201	0.074
	0.263447	600	3.53689	0.0981	361.016	8.60783	36.6307	0.20945	358.7433	0.89937	1010.677	1.46182	-0.086	0.072
	0.354862	800	4.62847	0.11823	566.0194	11.85925	49.42775	0.31986	479.426	0.527	1353.598	2.10991	-0.026	0.065

		0.439441	1000	4.20766	0.11335	576.9298	8.72078	45.44597	0.38636	443.5754	0.78176	1227.345	1.25655	-0.032	0.068
		0.523804	1200	3.74006	0.12653	575.14	13.9409	46.14494	0.37482	442.4402	0.95727	1079.217	1.33467	-0.052	0.076
		0.691555	1600	6.17796	0.15395	947.7351	7.24323	96.53654	0.4105	879.7726	0.97717	1780.293	1.95202	-0.046	0.046
		0.848413	2000	7.22946	0.12111	950.0792	15.74091	92.68845	0.48057	822.6437	0.98277	2085.539	1.01807	-0.055	0.039
		0.956547	3000	5.33852	0.05133	846.4229	11.3061	64.4684	0.41405	567.1076	1.25564	1549.95	1.29456	-0.043	0.024
		1	4000	2.68992	0.1225	514.3752	7.9938	25.65713	0.30856	227.8913	0.49458	744.5293	1.34036	-0.197	0.142
B38A	MC03 b38a UR-11 Basalt	mass=	0.0132	J=	4.96E-04	+/-	1.34E-06	tot.gas.age=	-0.021	+/-	0.025				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.013914	100	6.00783	0.12022	29.78943	3.21749	16.69471	0.17621	69.81125	0.27703	1774.284	2.93505	-0.013	0.457
		0.096701	200	25.61053	0.12936	157.3824	3.24042	92.83613	0.46548	415.3666	0.4578	7436.514	2.8287	-0.283	0.083
		0.258146	300	39.74697	0.1289	515.8408	4.3764	180.96256	0.47561	810.0184	0.85881	11510.81	4.25447	-0.259	0.042
		0.455696	400	45.35763	0.15685	876.1895	7.29426	219.97899	0.63069	991.171	1.30751	13323.35	4.36255	-0.072	0.042
		0.650644	500	42.40981	0.22639	1251.08	7.27472	215.42869	0.58529	978.1108	1.50007	12607.79	6.93587	0.069	0.062
		0.802631	600	31.75895	0.16599	1399.888	9.60936	164.55344	0.75474	762.5637	0.91165	9424.763	1.86892	0.047	0.058
		0.919993	800	22.68659	0.13346	1819.172	4.60547	123.95523	0.50965	588.8415	0.86884	6798.687	2.9608	0.144	0.06
		0.96942	1000	9.01705	0.14346	1213.129	6.53306	53.45524	0.29561	247.9937	0.91413	2783.109	2.72635	0.428	0.153
		0.986987	1200	3.50011	0.11119	616.1599	8.76068	20.42426	0.20719	88.13891	0.23404	1094.315	0.94543	0.609	0.334
		0.993396	1600	1.78452	0.06731	428.2779	2.70436	8.4098	0.13973	32.1517	0.31102	546.0564	1.53536	0.521	0.555
		0.995201	2000	0.70481	0.06289	251.8528	2.91277	2.42669	0.1307	9.05901	0.13636	187.3905	0.95578	-2.064	1.841
		0.996923	3000	0.63551	0.0522	350.3494	2.91689	2.02718	0.11425	8.64071	0.17561	165.2778	0.52697	-2.334	1.602
		1	4000	0.95998	0.06614	369.6348	5.43022	3.76542	0.10432	15.43721	0.13188	250.829	0.87266	-1.905	1.136
B39A	MC03 b39a Ur-12 Basalt	mass=	0.0113	J=	4.92E-04	+/-	1.43E-06	tot.gas.age=	-0.054	+/-	0.03				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.023678	100	9.35009	0.13085	45.19061	3.24096	31.28936	0.17377	101.1939	0.42448	2724.347	2.17656	-0.338	0.339
		0.130841	200	31.24944	0.16235	351.6858	2.74072	138.08026	0.40293	457.9894	0.69579	9026.125	4.14013	-0.403	0.093
		0.294347	300	36.16814	0.22339	782.4646	5.03528	194.49862	0.54869	698.7817	1.20641	10694.14	4.65841	0.008	0.084
		0.470577	400	28.85575	0.1876	1088.568	6.1622	165.35864	0.57133	753.1621	1.30732	8430.566	5.99965	-0.113	0.066
		0.628265	500	17.52565	0.09696	1127.669	4.94024	103.63802	0.43685	673.9203	0.86746	5212.14	4.25738	0.044	0.038
		0.748499	600	10.39445	0.15684	901.4269	6.77901	57.10715	0.29552	513.8509	0.98429	3086.35	2.43244	0.026	0.08
		0.848285	800	8.4372	0.0894	820.0989	5.72716	46.67521	0.26279	426.4594	0.61348	2543.886	2.75545	0.105	0.055
		0.893904	1000	6.12458	0.08476	474.0281	3.69462	27.20435	0.29858	194.9636	0.43301	1757.164	2.16904	-0.24	0.114
		0.912494	1200	3.42301	0.11392	267.5569	5.36217	12.78188	0.21825	79.44819	0.30435	1005.565	1.59761	-0.066	0.376
		0.934522	1600	4.53395	0.10798	833.2129	5.73629	17.4367	0.15411	94.14336	0.37533	1277.118	1.48274	-0.59	0.301
		0.954781	2000	3.47518	0.10298	823.1911	7.50591	15.5833	0.21379	86.58074	0.2296	1017.886	1.93049	-0.092	0.312
		0.9838	3000	5.23049	0.08828	1511.324	8.54759	22.00581	0.19844	124.02	0.10006	1526.017	1.1693	-0.14	0.187
		1	4000	2.46389	0.12405	868.0686	4.99942	11.24602	0.13102	69.23615	0.30558	854.6171	1.21043	1.62	0.469
B42A	MC03 b42a UR-18 Basalt	mass=	0.0135	J=	4.97E-04	+/-	1.33E-06	tot.gas.age=	-0.08	+/-	0.023				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.007592	100	6.45781	0.10683	8.58133	2.23461	8.04621	0.11971	44.71091	0.45979	1904.194	2.26891	-0.082	0.635
		0.063525	200	11.06585	0.18579	162.6031	2.65503	50.02425	0.19857	329.3928	0.7787	3248.399	6.17338	-0.059	0.151
		0.165762	300	10.61972	0.16505	354.4608	4.19583	91.29826	0.58249	602.075	1.06469	3038.106	4.51109	-0.149	0.073
		0.306752	400	12.21715	0.17552	665.7529	6.96738	127.43718	0.32182	830.2975	0.89274	3405.943	3.42507	-0.221	0.056
		0.471495	500	12.31826	0.19189	969.3472	6.44529	154.20099	0.51852	970.1791	0.93281	3486.723	2.60868	-0.142	0.053
		0.63705	600	11.1932	0.10824	1151.287	5.64684	156.86491	0.62172	974.9623	1.10808	3221.849	2.76199	-0.079	0.03
		0.829138	800	12.57582	0.14809	1869.092	9.05669	190.34487	0.34881	1131.216	0.71137	3664.203	2.48644	-0.041	0.035
		0.933962	1000	6.74519	0.1867	1502.232	7.26302	116.8944	0.47078	617.3149	0.70008	2052.001	2.32308	0.085	0.08
		0.973912	1200	2.80626	0.13619	856.9351	7.80149	54.47383	0.24865	235.2658	0.68007	841.2579	0.9385	0.046	0.154
		0.987468	1600	1.26743	0.07799	482.1312	6.51872	22.47235	0.26027	79.83313	0.32983	409.5672	0.86394	0.394	0.259
		0.990047	2000	0.5301	0.08586	182.8698	6.13655	3.37496	0.17174	15.185	0.14515	153.5361	0.8935	-0.184	1.501
		0.993773	3000	0.78425	0.07963	307.4776	5.08849	3.67989	0.12947	21.94665	0.19104	225.9321	0.98014	-0.238	0.963
		1	4000	0.90687	0.10639	430.7777	8.38073	6.08637	0.12818	36.66977	0.32242	267.339	0.88872	-0.016	0.77
B43A	MC03 b43a UR-20 BA	mass=	0.0108	J=	4.92E-04	+/-	1.36E-06	tot.gas.age=	0.006	+/-	0.019				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr

		0.019387	100	2.2948	0.08779	34.61925	3.34729	13.75967	0.15426	105.9399	0.50198	702.1635	1.97079	0.201	0.218
		0.096585	200	4.07869	0.13871	187.2758	4.05391	52.49973	0.20878	421.8441	0.73329	1200.851	3.42039	-0.009	0.087
		0.216121	300	4.28993	0.17796	442.873	5.57584	83.16134	0.32328	653.192	1.07661	1273.841	3.46547	0.008	0.072
		0.366117	400	4.8533	0.13229	686.5741	7.62716	106.82481	0.33939	819.6432	0.81209	1367.908	2.42681	-0.072	0.042
		0.525907	500	4.74363	0.15559	901.0495	5.40251	114.32654	0.40351	873.1637	0.95342	1363.261	2.04573	-0.039	0.047
		0.666664	600	3.84723	0.08318	975.9001	6.20463	103.29478	0.34561	769.1522	0.88495	1167.731	1.04203	0.036	0.028
		0.808755	800	3.98675	0.10459	1278.836	5.71388	112.51314	0.44922	776.4474	1.72854	1227.501	1.38645	0.056	0.035
		0.900722	1000	2.71936	0.08531	943.4242	6.4474	77.07371	0.10747	502.546	0.81422	835.0281	1.5564	0.056	0.045
		0.94619	1200	1.87513	0.07708	552.2342	5.42136	40.35603	0.36999	248.4592	0.54508	576.0918	1.50126	0.079	0.082
		0.968094	1600	1.14119	0.10525	440.9965	2.25921	21.60272	0.22321	119.6921	0.55662	294.0106	0.67372	-0.32	0.231
		0.978296	2000	0.60625	0.0926	361.2852	3.64501	10.25912	0.15456	55.74848	0.33971	151.0104	1.15212	-0.448	0.436
		0.993227	3000	0.61183	0.07077	618.7137	4.71512	14.06788	0.21736	81.58921	0.36435	200.3501	0.77077	0.213	0.228
		1	4000	0.17198	0.07589	344.9646	3.21546	6.66801	0.15854	37.01114	0.27469	86.86812	0.97423	0.864	0.538
JOA	MI94 J0a UR-28 andesite	mass=	0.0183	J=	9.64E-04	+/-	2.12E-06	tot.gas.age=	0.868	+/-	0.016				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.002112	100	3.83961	0.08654	28.51677	2.78913	8.1105	0.12422	27.16943	0.32908	1111.474	2.19445	-1.481	1.644
		0.016622	200	9.75595	0.2175	139.8877	3.79021	33.73608	0.27392	186.6717	0.65394	2982.176	2.51738	0.925	0.599
		0.046096	300	5.42856	0.14776	347.9458	4.97932	57.97671	0.32259	379.1769	1.0977	1742.662	4.56934	0.635	0.201
		0.092893	400	2.59943	0.10095	564.86	5.8811	87.8704	0.35546	602.0395	1.4499	987.1168	3.79715	0.632	0.087
		0.158976	500	1.58768	0.13057	774.2051	4.79584	117.55603	0.65127	850.1549	0.89544	830.7562	2.60773	0.739	0.079
		0.238248	600	1.23214	0.06386	985.4638	6.36408	129.68541	0.54698	1019.818	1.10165	879.7147	1.95162	0.879	0.032
		0.381123	800	1.57468	0.1001	2119.582	5.61575	197.97044	0.487	1838.074	1.30524	1446.837	1.51641	0.928	0.028
		0.529296	1000	1.46788	0.06779	2506.538	7.73537	183.68991	0.61416	1906.232	2.14851	1442.769	1.72733	0.92	0.018
		0.654061	1200	1.28417	0.0727	2324.744	14.46347	160.93996	0.7484	1605.081	2.05435	1215.785	1.68978	0.906	0.023
		0.786585	1600	1.63948	0.12377	2820.076	10.35635	197.63322	0.47221	1704.905	0.93798	1406.574	1.87929	0.94	0.037
		0.869693	2000	1.58855	0.08947	1979.748	10.12218	148.937	0.35002	1069.18	1.39812	1012.22	1.58175	0.882	0.043
		0.942514	3000	2.62648	0.08657	2200.435	10.44365	160.56916	0.46172	936.837	1.33736	1256.417	2.4071	0.891	0.048
		1	4000	2.90081	0.0731	2533.737	14.61059	145.15025	0.3794	739.5465	1.25987	1196.022	2.85536	0.796	0.051
B45A	MC03 b45a UR-29 BA	mass=	0.0123	J=	4.92E-04	+/-	1.34E-06	tot.gas.age=	0.01	+/-	0.025				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.019479	100	0.77795	0.04603	38.25243	2.74772	5.4019	0.06336	59.04972	0.30156	236.068	0.79015	0.093	0.205
		0.105186	200	1.24703	0.11623	181.6531	3.06699	20.31293	0.2503	259.8198	0.11554	397.1469	1.35381	0.098	0.117
		0.23466	300	1.31521	0.06807	396.8936	2.92116	31.67248	0.30398	392.5002	1.24733	426.7964	1.47083	0.086	0.046
		0.379725	400	1.12191	0.08671	642.6418	5.74529	36.28088	0.13776	439.7616	0.85031	312.9565	0.75646	-0.037	0.052
		0.522277	500	0.58977	0.08898	853.4725	5.08587	38.34976	0.22557	432.1447	0.69699	225.6972	0.77166	0.106	0.054
		0.646723	600	0.62839	0.08856	978.2734	7.15448	36.0047	0.29297	377.2542	0.69808	161.5252	0.84523	-0.057	0.062
		0.772458	800	0.53039	0.09047	1381.894	11.97086	37.853	0.26477	381.1644	1.22339	159.5447	0.55798	0.007	0.062
		0.847899	1000	0.33725	0.08558	1001.744	8.68867	20.66448	0.19799	228.6977	0.36802	97.98341	0.76359	-0.007	0.098
		0.888795	1200	0.22511	0.07876	578.6287	4.10572	9.85604	0.18592	123.9758	0.58714	58.0858	0.69522	-0.06	0.167
		0.91852	1600	0.29052	0.07781	570.8289	8.34502	6.63037	0.12097	90.11084	0.462	65.81112	0.68172	-0.197	0.227
		0.938717	2000	0.23687	0.06954	478.918	7.75195	4.04767	0.15473	61.2266	0.09076	51.88931	0.46627	-0.263	0.298
		0.965542	3000	0.12899	0.07441	640.4138	6.00231	5.84054	0.19591	81.32109	0.3392	47.32031	0.66458	0.1	0.24
		1	4000	0.24607	0.06911	843.8202	7.14087	7.56036	0.13147	104.4588	0.32672	61.896	0.63384	-0.092	0.174
B46A	MC03 b46a UR-30 Andesite	mass=	0.0097	J=	4.94E-04	+/-	1.43E-06	tot.gas.age=	3.616	+/-	0.075				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.011786	100	5.89809	0.11528	44.75187	2.96232	3.9661	0.12805	15.97557	0.17429	1830.254	1.68134	4.865	1.897
		0.046541	200	4.82359	0.09972	183.2249	5.00292	5.6923	0.14238	47.11035	0.25788	1601.788	3.13518	3.332	0.56
		0.116239	300	2.70608	0.07604	505.4537	8.04497	4.99273	0.15917	94.47729	0.27366	1196.861	2.03123	3.741	0.213
		0.218249	400	2.32287	0.07161	779.4884	5.15393	4.80861	0.11959	138.2746	0.36659	1277.671	1.68832	3.805	0.137
		0.33823	500	2.24553	0.09929	890.9308	8.71115	4.86576	0.0724	162.6346	0.56461	1286.282	0.98096	3.407	0.161
		0.456501	600	1.72142	0.06595	870.7988	5.5989	4.7164	0.16457	160.3179	0.21586	1133.753	1.64778	3.47	0.109
		0.606871	800	1.92181	0.08469	1086.675	9.84798	7.10788	0.18693	203.8267	0.55025	1364.734	1.04016	3.479	0.11
		0.730624	1000	2.48572	0.10118	852.9448	5.07865	7.31843	0.09018	167.749	0.62822	1364.272	1.83526	3.341	0.159

		0.823283	1200	3.53037	0.10241	652.6911	5.58856	8.11839	0.14862	125.5998	0.29614	1516.627	1.92091	3.354	0.215
		0.893842	1600	7.45725	0.15003	840.505	7.30004	8.4122	0.16757	95.64301	0.40672	2581.26	2.34784	3.514	0.413
		0.918638	2000	5.59104	0.10916	907.3031	8.02412	4.43125	0.1372	33.61086	0.36788	1807.446	2.10505	4.111	0.856
		0.946793	3000	4.44487	0.12638	936.5979	8.26369	4.619	0.14264	38.16397	0.20509	1563.536	2.07373	5.827	0.871
		1	4000	7.01462	0.13864	1477.818	9.25069	8.81163	0.17501	72.12289	0.33387	2397.366	1.71641	4.004	0.506
J42A	MI94 J42a UR-32 Basalt	mass=	0.0184	J=	9.64E-04	+/-	2.01E-06	tot.gas.age=	0.821	+/-	0.014				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.001333	100	1.44746	0.11301	12.07286	3.80927	3.95461	0.10026	17.86676	0.26286	493.2911	1.87856	6.372	3.246
		0.009957	200	3.73194	0.09256	114.7235	3.82152	7.98127	0.09298	115.5788	0.45125	1143.548	1.62929	0.613	0.412
		0.028976	300	2.78057	0.08989	372.1746	6.02291	12.17545	0.1502	254.8989	0.77871	914.131	2.20431	0.631	0.182
		0.060197	400	1.2827	0.10049	704.8813	5.45867	19.50425	0.19087	418.431	0.56143	555.0594	1.11177	0.732	0.123
		0.107031	500	0.7202	0.08995	1080.665	9.87195	32.71587	0.2542	627.6721	0.86816	536.071	1.51758	0.896	0.074
		0.169541	600	0.8778	0.09368	1430.28	7.50142	43.08288	0.40063	837.7733	0.70975	632.6278	1.2011	0.775	0.058
		0.300197	800	1.15926	0.11373	2964.727	12.53055	79.97578	0.35884	1751.077	1.59054	1220.75	1.71384	0.872	0.033
		0.45497	1000	1.15744	0.09218	3373.416	12.87662	87.53172	0.39327	2074.305	0.92998	1340.586	2.21459	0.837	0.023
		0.601451	1200	1.16296	0.11483	3070.136	14.39468	92.80332	0.28516	1963.159	0.92284	1229.307	1.75045	0.784	0.03
		0.776636	1600	1.97506	0.10671	3462.439	17.79842	151.18522	0.50783	2347.867	1.38453	1638.511	2.62712	0.781	0.023
		0.897593	2000	2.34768	0.10823	2255.92	7.22693	143.37529	0.35892	1621.092	1.79771	1436.485	1.36333	0.797	0.034
		0.972467	3000	3.663	0.1047	1777.633	11.70873	112.35357	0.58571	1003.478	1.13256	1576.207	2.05682	0.856	0.054
		1	4000	1.74026	0.08717	863.0037	6.52839	54.41835	0.24199	368.9967	1.07615	717.8075	1.84986	0.959	0.122
B47A	MC03 b47a UR-33 Andesite	mass=	0.0114	J=	4.95E-04	+/-	2.16E-06	tot.gas.age=	0.012	+/-	0.018				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.001587	100	2.94739	0.158	5.80738	2.1922	1.95286	0.10016	9.53	0.12658	889.7197	1.48532	1.758	4.374
		0.014707	200	3.41017	0.15537	20.72449	1.96846	11.40618	0.09931	78.80097	0.43104	1022.63	1.58705	0.169	0.521
		0.045051	300	1.18611	0.12186	74.83449	3.10916	24.10039	0.19471	182.2532	0.48443	346.3234	0.9672	-0.02	0.177
		0.089285	400	0.62968	0.134	137.1368	2.99729	34.05443	0.13013	265.6772	0.40849	179.6286	1.38576	-0.022	0.133
		0.144031	500	0.29002	0.17463	194.1477	3.57103	41.84981	0.1885	328.8179	0.74184	150.0137	1.29439	0.175	0.14
		0.205707	600	0.44316	0.10592	259.7757	2.94208	48.33922	0.35234	370.4376	0.85285	124.6234	0.88366	-0.015	0.076
		0.298365	800	0.60262	0.07936	474.6757	4.68812	72.85424	0.52477	556.5239	0.71218	194.1856	1.00063	0.026	0.038
		0.393405	1000	0.68012	0.09407	525.9793	6.12017	75.75729	0.49889	570.8301	0.77243	209.2733	0.59795	0.013	0.044
		0.507052	1200	0.79159	0.1044	611.7136	5.55903	91.29607	0.40384	682.5881	1.18637	235.5702	0.95971	0.002	0.04
		0.754912	1600	1.96166	0.10947	1248.957	6.50521	211.47783	0.62791	1488.703	1.47495	555.33	1.58408	-0.015	0.019
		0.895513	2000	0.91659	0.06248	867.7828	8.19451	124.5794	0.5857	844.4776	1.07806	283.9355	1.56776	0.014	0.02
		0.963292	3000	0.90783	0.03386	1100.001	4.9146	63.27555	0.32616	407.0926	1.24013	268.367	1.0866	0	0.022
		1	4000	0.94881	0.07074	625.7349	5.43377	32.3565	0.22291	220.4774	0.68752	265.4417	1.16838	-0.06	0.085
B48B	MC03 b48b UR-35 Basalt	mass=	0.0157	J=	4.92E-04	+/-	1.51E-06	tot.gas.age=	0.594	+/-	0.022				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.004962	100	6.14902	0.0969	22.42782	6.49111	6.35418	0.14123	46.1832	0.2616	1858.036	2.04112	0.787	0.551
		0.035505	200	16.21313	0.12815	98.32501	6.7894	31.36949	0.36682	284.2467	0.5467	4897.609	5.12541	0.333	0.119
		0.095817	300	19.86914	0.23359	208.1514	7.61352	56.66399	0.32027	561.2992	1.07779	6139.964	3.91452	0.424	0.109
		0.185748	400	25.40723	0.30232	354.1444	12.75649	80.1543	0.19193	836.9554	0.61885	7927.832	4.53276	0.445	0.095
		0.298706	500	29.84951	0.21103	520.404	10.09281	98.22224	0.41615	1051.258	1.14018	9434.788	3.26013	0.518	0.053
		0.425675	600	31.96059	0.27542	1059.592	20.54338	110.375	0.57857	1181.651	0.64586	10223.05	2.6119	0.584	0.061
		0.606202	800	44.70245	0.30519	1229.95	14.51891	154.31329	0.28438	1680.094	1.68431	14255.76	5.92731	0.552	0.048
		0.775726	1000	41.07456	0.32927	1415.485	24.46429	145.66059	0.66511	1577.695	1.16214	13321.67	6.30493	0.665	0.055
		0.88641	1200	26.60353	0.20824	1235.408	15.04974	95.43373	0.39105	1030.096	1.56392	8694.014	2.15372	0.717	0.053
		0.95113	1600	14.68813	0.12276	1362.15	14.34552	56.85868	0.3248	602.3185	1.02025	4862.338	2.7294	0.768	0.054
		0.973422	2000	4.70711	0.10544	911.0371	8.23068	22.67052	0.3365	207.4706	0.5888	1586.51	1.44453	0.836	0.133
		0.990187	3000	5.3836	0.1124	995.9508	17.52049	21.70131	0.21163	156.026	0.55064	1779.866	1.99251	1.074	0.189
		1	4000	2.78801	0.08899	547.3792	16.5517	12.64065	0.10795	91.32206	0.5918	864.6373	1.30615	0.396	0.256
B49A	MC03 b49a UR-36 Basalt	mass=	0.0131	J=	4.97E-04	+/-	1.55E-06	tot.gas.age=	0.071	+/-	0.031				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.00939	100	8.93744	0.09481	22.41014	3.10749	9.8997	0.15339	25.89301	0.23587	2615.823	1.7221	-0.873	0.973

		0.067539	200	14.79007	0.14516	128.7485	2.33209	53.35999	0.26961	160.3387	0.62359	4454.994	2.68111	0.473	0.24
		0.182927	300	5.5714	0.06623	366.677	5.08513	96.48099	0.37919	318.1737	0.63514	1623.596	2.17402	-0.064	0.056
		0.333983	400	3.15256	0.09471	686.2097	4.46892	124.76414	0.30341	416.5234	0.68936	952.6766	1.50744	0.045	0.06
		0.491453	500	2.43044	0.07755	961.7323	3.45072	126.52428	0.38223	434.2114	0.47523	696.5084	0.82038	-0.045	0.047
		0.629743	600	1.85408	0.10821	1150.188	7.86102	106.49827	0.33277	381.3209	0.67661	596.0796	0.99898	0.113	0.075
		0.778778	800	2.67757	0.07355	1795.235	11.29679	105.48338	0.42866	410.951	0.8029	812.3936	1.30689	0.046	0.048
		0.873453	1000	2.19102	0.06931	1520.134	11.40687	64.66461	0.29518	261.0588	0.72913	682.8187	1.338	0.122	0.071
		0.920727	1200	1.90973	0.05358	887.0737	7.18013	31.82891	0.21371	130.3554	0.39231	520.0834	1.05034	-0.304	0.109
		0.948896	1600	1.97075	0.07155	687.7265	6.2178	19.08213	0.22054	77.67197	0.42684	584.5166	0.98596	0.025	0.245
		0.96203	2000	1.54438	0.11852	541.3619	3.13875	11.19247	0.18797	36.21542	0.23371	469.2543	1.04275	0.319	0.868
		0.98585	3000	3.7946	0.06256	1623.368	10.7291	24.67734	0.21218	65.68149	0.20218	1143.226	1.81915	0.299	0.254
		1	4000	1.7573	0.07529	1115.702	5.15487	12.34825	0.15539	39.01878	0.23856	602.9843	1.91938	1.923	0.513
B50A	MC03 b50a UR-38 Andesite	mass=	0.0137	J=	4.93E-04	+/-	1.70E-06	tot.gas.age=	2.04	+/-	0.019				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.00413	100	6.17982	0.16295	21.68768	2.0784	3.87119	0.08842	23.59935	0.26481	1775.804	1.45409	-1.896	1.816
		0.022496	200	14.53053	0.2005	99.05348	3.14412	6.55718	0.1431	104.9457	0.38642	4391.621	13.66386	0.828	0.515
		0.05506	300	9.30067	0.08393	181.2538	1.69843	5.90715	0.12978	186.0761	0.8152	3061.503	17.03591	1.495	0.144
		0.105795	400	4.4727	0.08935	269.3417	4.84401	4.85554	0.11471	289.911	0.73135	1918.109	7.54275	1.827	0.084
		0.176168	500	2.17164	0.10345	331.9481	3.61632	3.76359	0.1726	402.1244	1.28044	1558.605	2.16705	2.025	0.068
		0.266718	600	1.35891	0.09088	400.4366	4.5711	4.17822	0.18372	517.4173	1.15662	1668.807	1.93636	2.175	0.046
		0.437468	800	1.88925	0.11833	733.9141	5.39106	7.15992	0.1526	975.7009	1.56877	2945.763	2.07984	2.173	0.032
		0.614791	1000	1.25292	0.07742	779.3408	10.55192	8.48931	0.22834	1013.252	1.75396	2806.873	2.84231	2.136	0.021
		0.763469	1200	0.76924	0.06905	693.2191	8.10846	8.95041	0.14635	849.574	1.41312	2246.53	2.26569	2.111	0.022
		0.909508	1600	0.98677	0.07552	796.3721	7.46597	14.52186	0.22365	834.4932	1.26874	2267.107	1.92091	2.103	0.024
		0.97472	2000	0.5762	0.05215	499.7421	6.16201	13.29785	0.16443	372.6314	0.88892	1033.896	1.67983	2.059	0.037
		1	3000	0.83422	0.07742	463.2524	6.68769	10.53655	0.10652	144.4576	0.62766	543.9751	1.26838	1.829	0.141
B52A	MC03 b52a UR-47 Basalt	mass=	0.0137	J=	4.97E-04	+/-	1.61E-06	tot.gas.age=	0.016	+/-	0.048				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.003833	100	1.43486	0.12949	6.77908	3.01015	4.33648	0.08066	10.49723	0.15259	431.0532	0.70339	0.602	3.267
		0.040498	200	7.88752	0.17058	51.39187	3.06584	38.03769	0.19773	100.4068	0.39281	2188.211	2.68413	-1.273	0.451
		0.11814	300	9.66429	0.20227	156.527	7.10368	78.39193	0.35437	212.6219	0.58728	2843.496	2.28465	-0.052	0.252
		0.22743	400	9.64727	0.15361	357.4056	6.54559	106.97644	0.24986	299.292	0.83224	2886.036	2.56997	0.106	0.136
		0.353068	500	8.59181	0.14416	571.7663	5.53113	117.09555	0.39998	344.0571	0.73274	2553.366	2.63362	0.038	0.111
		0.473574	600	6.66569	0.16092	668.72	6.32908	102.66809	0.40891	330.0071	0.81491	1983.403	0.96687	0.037	0.129
		0.631079	800	6.69171	0.1637	1162.152	7.09988	110.97566	0.33164	431.3255	0.60124	2028.474	1.98641	0.106	0.101
		0.75369	1000	4.24222	0.12756	1105.707	11.61254	69.3327	0.27234	335.7711	0.88871	1243.165	1.52883	-0.028	0.101
		0.83485	1200	2.57251	0.09391	949.6843	7.16863	36.60205	0.26408	222.2557	0.53957	766.4375	0.99713	0.025	0.112
		0.910111	1600	2.93286	0.11811	1165.883	7.65415	31.14872	0.30154	206.1022	0.55258	887.083	1.02972	0.089	0.152
		0.947791	2000	2.48949	0.08715	798.2297	6.97997	17.91274	0.15196	103.1871	0.35869	730.4448	1.11484	-0.045	0.224
		0.971368	3000	3.5798	0.0728	947.8256	9.05447	14.53509	0.18724	64.56531	0.18046	1077.916	2.91874	0.279	0.302
		1	4000	4.81519	0.083	1513.439	8.98197	13.52227	0.15176	78.40978	0.31666	1474.494	1.35236	0.59	0.281
B54B	MC03 b54b UR-60 BA	mass=	0.0079	J=	4.95E-04	+/-	1.96E-06	tot.gas.age=	0.022	+/-	0.025				
		F39	LasPowmW	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
		0.029524	100	2.19716	0.09778	36.59045	13.27925	18.70895	0.2358	94.38111	0.38605	625.7723	1.37989	-0.222	0.274
		0.134812	200	1.14001	0.09843	189.8076	11.64528	71.44819	0.296	336.5884	0.91829	345.1961	0.89025	0.022	0.077
		0.291327	300	0.54446	0.10633	451.6066	9.07419	114.23307	0.53437	500.3485	1.00009	167.7684	1.03899	0.012	0.056
		0.48046	400	0.642	0.08678	656.4549	7.88702	145.7874	0.35141	604.6222	0.49493	212.0805	0.72675	0.033	0.038
		0.668785	500	0.8823	0.0589	794.1249	7.57245	148.8845	0.34876	602.0405	0.66651	271.291	0.98467	0.016	0.026
		0.812269	600	0.97882	0.07586	782.5839	11.71663	115.28727	0.36828	458.6921	0.84277	267.8796	0.80969	-0.042	0.044
		0.922894	800	0.90582	0.09345	887.0871	14.77124	97.1531	0.26861	353.6466	0.83973	292.4909	0.86197	0.063	0.07
		0.970529	1000	0.5819	0.0669	528.3196	11.27164	46.81159	0.44111	152.2812	0.61933	190.9107	1.00065	0.111	0.116
		0.987035	1200	0.37553	0.0656	239.535	10.98433	17.2156	0.20036	52.76647	0.3423	114.5999	0.8119	0.061	0.329
		0.992408	1600	0.34669	0.07047	163.8841	14.93217	5.20061	0.1348	17.1751	0.18339	102.7628	0.85233	0.016	1.086

0.994229	2000	0.17378	0.0947	89.51377	8.47288	1.42843	0.08919	5.82218	0.16958	58.68053	0.60703	1.125	4.296
0.996408	3000	0.36168	0.09172	102.6506	10.78244	1.81279	0.09135	6.96745	0.1999	80.84101	0.75	-3.343	3.487
1	4000	0.17976	0.08018	134.5855	8.14104	2.86895	0.08448	11.48202	0.13528	100.0356	0.68202	3.648	1.843

**Table DR-6: Sample analyses for the Tancítaro-Nueva Italia region from Hasenaka (1994).**

Vent #	Northing	Easting	Sample #	SiO <sub>2</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Total	Min	Gp	Chm	DFT	V	Cr	Ni
66	2151553	767725	666	48.94	51.01	1.21	16.98	0.00	8.18	0.15	7.60	8.46	3.50	0.71	0.21	95.94	2	9	3	227	200	219	151
390	2105431	807524	542	49.93	50.57	1.08	16.29	3.40	4.63	0.13	8.72	9.18	3.26	1.80	0.32	98.74	3	9	1	204	198	515	209
375	2119328	808205	658	50.66	51.49	1.02	15.97	0.00	7.34	0.14	9.37	9.30	3.23	1.11	0.24	98.38	2	5	3	216	174	404	208
389	2116580	814939	660B	50.85	51.13	0.78	16.93	0.00	7.60	0.15	9.36	9.49	3.62	0.55	0.13	99.46	3	5	4	217	184	438	178
325	2155102	806338	508B	50.96	51.16	1.15	17.15	2.19	6.08	0.14	8.53	9.03	3.32	0.84	0.21	99.60	3	1	4	248	204	443	194
377	2122750	808516	544B	50.96	51.32	1.22	16.36	2.51	5.50	0.14	8.86	8.88	3.32	1.23	0.32	99.30	3	2	3	220	168	409	197
332	2146452	806923	656	51.03	52.35	1.49	15.74	0.00	8.04	0.13	5.76	7.70	4.52	2.18	0.88	97.47	3	9	1	240	201	156	93
325	2155102	806338	508L	51.21	51.82	1.26	17.77	2.60	5.63	0.14	6.63	8.83	3.66	0.81	0.28	98.82	2	2	3	248	196	270	140
391	2106273	808213	541T	51.30	51.82	1.08	17.10	2.79	5.01	0.13	7.43	8.94	3.53	1.35	0.34	99.00	3	2	3	205	210	300	107
65	2157315	769127	667	51.56	53.14	0.99	16.61	0.00	7.36	0.13	7.74	8.05	3.56	0.85	0.18	97.03	2	5	4	232	205	280	161
326	2152523	807784	510E	52.28	54.42	0.92	17.30	1.70	5.69	0.12	5.94	7.49	3.70	0.76	0.17	96.07	2	2	4	245	178	213	106
78	2141088	756385	665B	52.49	53.79	0.99	17.01	0.00	6.89	0.13	6.43	8.88	3.50	1.06	0.20	97.58	3	5	4	212	184	197	76
80	2137337	758681	664	52.49	54.42	0.87	16.49	0.00	6.88	0.13	7.67	7.58	3.26	0.92	0.17	96.46	3	5	4	210	131	316	200
388	2113884	806154	543	52.51	53.52	1.24	15.71	2.12	4.11	0.11	6.98	8.13	3.32	3.35	0.54	98.12	3	9	1	211	167	224	112
376	2121280	808944	545A	52.53	52.60	1.13	16.85	2.60	5.06	0.13	7.69	8.97	3.32	1.28	0.30	99.86	3	2	4	218	204	303	153
95	2137097	775072	802	52.55	53.02	0.79	17.07	0.00	6.78	0.12	8.80	7.94	4.19	0.71	0.16	99.11	3	8	3	217	192	428	222
374	2117602	807672	659B	52.59	53.14	1.13	15.94	0.00	6.57	0.13	8.02	8.51	3.32	2.27	0.49	98.97	3	5	3	215	168	289	132
376	2121280	808944	545L	52.90	52.88	1.16	17.29	2.17	5.23	0.13	6.92	8.94	3.60	1.32	0.38	100.04	3	2	4	218	180	272	144
374	2117602	807672	659A	53.00	53.51	1.10	16.03	0.00	6.45	0.12	7.65	8.32	3.77	2.08	0.52	99.04	3	5	3	215	192	288	159
139	2116286	779596	663	53.06	53.88	0.89	17.00	0.00	6.85	0.13	7.96	7.75	3.74	0.91	0.18	98.47	2	5	4	201	169	364	212
330	2157133	813782	727	53.35	53.70	1.02	17.86	0.00	7.35	0.14	6.60	7.95	3.95	0.91	0.21	99.34	2	5	4	252	189	195	138
388	2113884	806154	661	53.42	53.75	1.15	15.78	0.00	6.16	0.11	7.59	8.43	3.49	2.73	0.52	99.38	0	5	0	211	214	222	97
274	2159975	801843	415B	53.58	53.46	0.97	17.09	2.38	5.39	0.13	7.82	7.97	3.79	0.91	0.19	100.22	2	2	4	250	161	326	177
387	2112127	805991	662	53.61	53.94	1.27	15.39	0.00	6.02	0.11	7.36	8.06	3.56	3.31	0.70	99.39	3	9	1	209	183	229	108
378	2112522	780988	818A	54.09	55.39	0.79	17.36	0.00	6.44	0.12	6.46	7.32	3.85	1.04	0.19	97.66	4	8	4	198	158	248	170
326	2152523	807784	510T	55.04	55.75	0.97	18.07	2.82	4.58	0.12	4.39	7.57	4.10	0.86	0.21	98.73	2	2	4	245	149	60	72
289	2157634	788539	418	55.48	55.79	1.11	17.33	1.30	6.05	0.13	5.43	6.92	4.16	1.21	0.33	99.45	2	8	4	241	152	187	107
378	2112522	780988	818B	55.64	56.69	0.79	17.17	0.00	6.23	0.12	6.03	6.91	3.94	1.14	0.17	98.14	3	8	4	198	129	170	149
321	2153036	803168	810	56.35	57.07	0.77	17.76	0.00	6.30	0.12	5.03	7.06	4.12	1.04	0.19	98.74	3	8	4	244	147	148	85
301	2151559	791964	805	56.76	58.01	0.78	17.40	0.00	5.71	0.11	4.75	6.81	3.80	1.51	0.21	97.84	3	8	4	238	125	140	85
97	2138143	778316	801A	57.20	58.03	0.75	17.70	0.00	5.47	0.10	5.11	6.53	4.39	1.13	0.19	98.57	3	8	4	220	126	159	141
289	2157634	788539	808	57.71	58.05	0.85	18.05	0.00	5.92	0.11	4.09	6.52	4.65	1.29	0.23	99.42	3	8	4	241	151	98	64
301	2151559	791964	804	58.13	58.65	0.81	17.81	0.00	5.74	0.11	4.20	6.35	4.39	1.35	0								

Cu	Zn	Ga	Pb	Th	Rb	Sr	Y	Zr	Nb	Ba	La	Ce	Nd	Si
37	62	19	9	0	10	580	20	128	13	233	6	30	15	0
64	83	18	14	5	11	1211	19	150	11	866	33	73	30	30
42	61	18	9	0	18	860	19	133	14	284	17	33	17	0
59	63	16	7	0	8	381	17	85	0	147	11	13	16	0
33	72	14	0	0	12	483	19	103	10	238	14	30	21	33
42	70	16	0	0	18	827	21	149	11	337	24	42	29	24
46	130	22	14	0	23	1966	22	200	22	708	46	102	34	0
50	68	18	0	0	9	544	22	118	8	318	20	41	30	33
47	80	18	5	0	12	931	20	137	7	573	24	54	33	18
45	75	16	10	0	10	539	23	124	15	282	13	29	11	0
35	85	21	0	0	9	598	18	95	9	296	8	31	22	0
64	67	22	8	0	15	864	22	127	14	325	18	29	22	0
36	80	18	11	0	10	595	15	111	13	316	10	26	7	0
54	91	20	6	5	75	1332	21	355	16	873	37	77	47	25
52	77	15	0	0	17	941	20	153	11	324	19	42	29	0
50	72	17	9	0	9	531	16	102	13	228	5	16	5	0
63	78	21	13	0	44	1142	24	217	17	612	24	79	46	0
56	73	19	8	6	21	921	20	156	13	358	20	52	29	0
61	80	22	12	0	42	1119	24	221	15	656	26	64	33	0
32	78	18	11	0	10	530	16	117	12	267	10	23	10	0
39	77	21	12	0	12	588	20	115	13	290	12	20	16	0
33	84	18	10	0	61	1244	20	289	16	675	30	64	41	25
69	77	19	14	0	12	505	14	103	2	314	13	30	24	33
63	101	19	10	0	67	1388	24	309	16	901	44	101	52	0
34	81	19	12	0	11	580	14	108	12	309	12	20	2	0
28	81	22	13	6	15	619	19	108	6	345	14	35	22	0
39	88	20	10	0	17	586	18	154	10	400	18	42	25	33
40	74	20	10	0	15	604	15	103	14	347	11	20	14	0
32	83	17	14	0	14	656	17	116	13	360	7	28	12	0
37	70	20	12	0	25	585	17	146	15	553	18	38	9	0
34	71	21	13	0	14	628	16	117	0	363	17	27	8	0
26	91	20	13	0	20	575	23	157	16	475	13	41	7	0
26	80	19	14	0	25	588	19	143	12	502	11	27	8	0
24	73	20	15	0	26	824	23	208	20	537	26	39	18	0
32	85	21	11	0	24	607	17	145	17	507	19	41	21	0
33	78	19	13	0	30	528	19	150	13	539	17	37	15	0
20	77	22	15	0	33	544	28	223	19	594	25	48	25	0
33	76	19	14	0	29	567	18	150	15	512	20	38	17	0
25	82	23	9	0	17	1453	16	120	15	391	15	40	17	0
25	80	19	11	0	24	575	17	154	15	540	22	37	18	0

TABLE DR-7A. REE MINERAL-LIQUID (BASALT-ANDESITE) DISTRIBUTION COEFFICIENTS<sup>1</sup>

REE	Hbde	Olivine	Opx	Cpx	Plag	Garnet
La	0.544	0.007	0.03	0.056	0.148	0.001
Ce	0.843	0.006	0.02	0.092	0.082	0.007
Nd	1.340	0.006	0.03	0.230	0.055	0.026
Sm	1.804	0.007	0.05	0.445	0.039	0.102
Eu	1.557	0.007	0.05	0.474	<sup>2</sup> 0.1/1.5	0.243
Dy	2.024	0.013	0.15	0.582	0.023	3.17
Er	1.740	0.026	0.23	0.583	0.020	6.56
Yb	1.642	0.049	0.34	0.542	0.023	11.5
Lu	1.563	0.045	0.42	0.506	0.019	11.9
<sup>3</sup> MA-1	42%	0%	10%	10%	35%	3%
MA-2	43%	0%	5%	6%	45%	3%
MA-3	0%	25%	0	25%	50%	0%

<sup>1</sup>Rollinson (1993); <sup>2</sup>Eu<sup>3+</sup>/Eu<sup>2+</sup>; <sup>3</sup>MA = Mineral Assemblage (proportions of different phases)

TABLE DR-7B. REE BATCH EQUILIBRIUM MELTING MODELS

REE	Avg Basalt (ppm)	Avg Andesite (ppm)	Bulk D <sub>i</sub> 20-40% partial melt	Modeled (30% melt) Bulk D <sub>i</sub> MA-1	Modeled (30% melt) Bulk D <sub>i</sub> MA-2	Modeled (30% melt) Bulk D <sub>i</sub> MA-3
La	0.544	0.007	0.55-0.40	0.29	0.30	0.09
Ce	0.843	0.006	0.62-0.50	0.39	0.40	0.06
Nd	1.340	0.006	0.67-0.56	0.61	0.62	0.09
Sm	1.804	0.007	0.78-0.71	0.82	0.82	0.13
Eu	1.557	0.007	0.87-0.83	0.89	0.92	0.37
Dy	2.024	0.013	1.02-1.02	1.03	1.02	0.16
Er	1.740	0.026	1.12-1.16	1.02	1.00	0.16
Yb	1.642	0.049	1.09-1.12	1.13	1.11	0.15
Lu	1.563	0.045	1.08-1.08	1.11	1.09	0.14