Data Repository item 2004042

DATA REPOSITORY

For each sample, the age spectra and inverse isochron are displayed. Errors are reported as 1 sigma. For plateau and isochron ages, the criteria used to determine if an experiment yielded a geologically significant age are slightly modified from Lanphere and Dalrymple (1978): (1) plateau spectra yield > 50% of the ^{39}Ar released in ≥ 3 contiguous steps; (2) plateau spectra passes a reasonable null hypothesis test; for an experiment with 13 incremental heating steps, an upper MSWD limit of 1.8 is used; (3) plateau and isochron ages are concordant at the 95% confidence level; (4) the $^{40}Ar/^{36}Ar$ intercept on the isochron diagram does not differ from the atmospheric value of 295.5 at the 95% confidence level. The total errors reported for the plateau ages were derived by standard weighting of errors for individual steps according to variance (Taylor, 1982), so more precisely determined release fractions are given greater weight in the analysis. In the isochron diagrams, a solid line indicates all heating steps were used in the regression, whereas a dotted line indicates only plateau steps were used.

Eight of the experiments did not yield a plateau age and may contain "stair-step" patterns or other indications of significant alteration of the sample. These samples are considered analogous to a conventional K-Ar age, but more information is available due to the incremental heating spectra obtained. These ages should be used with caution, as there is evidence that the sample is disturbed, based on the gas release spectra.

IXT-37
Initial heating at the lowest temperature fractions displays anomalously low apparent ages, indicative of alteration and minor argon loss. The spectra shows a monotonic increase in the middle fractions and thus does not yield a plateau.

IXT-41
The older apparent ages at the highest temperature fractions are accompanied by a slight rise in Ca and Cl concentrations and thus likely the result of degassing of xenocrystic pyroxene (Ca), calcic plagioclase (Ca) or hornblende (Ca and Cl). These gas fractions are not included in the plateau.

IXT-1
This sample does not yield a plateau and the age should be used with caution. Nonetheless, the sample is considered < 500 ka, given the large error estimates.

IXT-47
Initial heating at the lowest temperature fractions displays anomalously low apparent ages, likely indicative of alteration and minor argon loss. The older apparent ages at the highest temperature fractions are accompanied by a slight rise in Ca concentrations and thus likely the result of degassing of xenocrystic pyroxene. Because the gas fractions show a monotonic increase and non-zero slope, the sample does not yield a plateau and should be used with caution.

IXT-45

Initial heating at the lowest temperature fractions displays anomalously low apparent ages, indicative of alteration and minor argon loss. These gas fractions are not included in the plateau.

IXT-43
The heating steps do not display a particular pattern and all display the same age at the 95% confidence level. The slightly higher isochron age may be indicative of the relatively large errors associated with each gas fraction.

IXT-25
This sample does not yield a plateau and the age should be used with caution. Nonetheless, the sample is clearly < 1 Ma, given the error estimates.

COMP-5
The gas spectra do not display a particular pattern and all display the same age at the 95% confidence level. Due to the rise in Ca concentrations, only steps 2-6 were used to construct the plateau. The slightly higher isochron age and large error may be indicative of the relatively large errors associated with each gas fraction.

IXT-7
This sample does not yield a plateau and the age should be used with caution. Nonetheless, the sample is clearly < 1 Ma, within the error estimates.

IXT-27
Initial heating at the lowest two temperature fractions displays anomalously old apparent ages, indicative of contamination. These gas fractions are not included in the plateau. Five of the eight increments used to construct the plateau yield a positive age and the plateau age is positive. The older apparent ages at the highest temperature fractions are accompanied by a slight rise in Ca concentration and thus likely the result of degassing of xenocrystic pyroxenes or calcic plagioclase. An isochron constructed with all of the heating fractions yields a positive age, but is actually an errorchron, whereas the isochron constructed with the plateau points yields a slightly negative age. This information strongly suggests the sample is < 100 ka.

COMP-20
The first gas fraction has a very large associated error due to excess atmospheric argon and is not used to construct the plateau. The older apparent ages at the highest temperature fractions are accompanied by a slight rise in Ca concentration and thus likely the result of degassing of xenocrystic pyroxenes or calcic plagioclase.

IXT-10
Many of the gas fractions yield negative ages, as do the total gas and isochron determinations. The age spectra shows a monotonic increase and thus does not yield a plateau. The negative ages result from the subtraction of initial ^{40}Ar from total ^{40}Ar, most of which are within error of zero. This sample is likely very young, probably 100 ka, certainly 1 Ma.

COMP-11
All gas fractions are used to construct the isochron, but the errors associated with each fraction are relatively large, contributing to the large error in the $^{40}Ar/^{36}Ar$ ratio.

IXT-6
The first two gas fractions have a relatively large associated error and slightly elevated concentration of Cl, perhaps due to a zeolite or hydrothermally altered country rock. The remaining fractions display a well constrained plateau.

COMP-9
This sample does not yield a plateau and the age should be used with caution. Nonetheless, the sample is clearly < 1 Ma, within error.

IXT-5
The first gas fraction displays an anomalously young apparent age, likely due to argon loss and alteration and thus is not used in the construction of the plateau. The remainder of the spectrum displays a good plateau, with small errors on each gas fraction.

IXT-44
The first two gas fractions have a relatively large associated error and slightly elevated concentrations of Cl, likely due to alteration, and are not included in the plateau. The remaining fractions display a well constrained plateau.

COMP-12
The first gas fraction displays an anomalously young apparent age, likely due to argon loss and alteration, and is not used in the plateau. The middle part of the spectrum displays a good plateau and the higher temperature gas fractions again display anomalously young ages. The elevated Ca and Cl concentrations suggest degassing of xenocrystic augite (Ca) or hornblende (Ca and Cl).

IXT-15
The first gas fraction displays an anomalously young apparent age, likely due to argon loss and alteration, and is not used in the plateau. The remainder of the spectrum displays a good plateau, with small associated errors on each gas fraction.

IXT-38
The first four gas fractions display anomalously old apparent ages and are not used in the plateau. The older ages may be due to the contamination of a phase such as a zeolite or a piece of hydrothermally altered country rock which would degass at low temperatures and may be slightly enriched in Cl.

IXT-14
The first five gas fractions yield anomalous ages and have very large errors, likely due to a combination of argon loss and alteration (young ages) and contamination by a zeolite or xenolithic hydrothermally altered country rock. The last three gas fractions yield old

apparent ages, in conjunction with a rise in calcium, suggestive of degassing of xenocrystic pyroxene or calcic plagioclase. Thus only the middle four gas fractions are used to construct the plateau.

COMP-47
This sample does not yield a plateau and the age should be used with caution. Nonetheless, the sample is clearly < 1 Ma, within the reported errors.

COMP-23
The errors on each gas fraction for this sample are relatively large. The middle fractions yield a plateau whereas the higher temperature fractions record an anomalously old age, perhaps due to the degassing of xenocrystic augite or hornblende. The spectra shows a monotonic decrease and thus does not yield a plateau. The age should be used with caution, but is < 1 Ma.

COMP-4
The first two gas fractions display anomalously young apparent ages, likely due to argon loss and alteration, and are not included in the plateau. The next three gas fractions yield a slightly older age, but contain only ~35% of the ^{39}Ar released. Overall, the spectra shows a slight monotonic increase and therefore does not yield a plateau. However, the sample is clearly < 1 Ma.

COMP-28
The first two gas fractions display anomalously young apparent ages, likely due to argon loss, and are not included in the plateau. The next four gas fractions display anomalously old apparent ages. This may be due to the contamination of a phase such as a zeolite or a xenocryst of hydrothermally altered rock, which would degass at low temperatures and may be slightly enriched in Ca. The last seven steps, in which the spectra is more well behaved, are used for the plateau.

IXT-53
The first gas fraction has a very large associated error due to excess atmospheric argon. The higher temperature fractions record an anomalously old age, perhaps due to the degassing of xenocrystic augite (Ca) or hornblende (Ca and Cl). The gas fractions display a non-zero slope and thus do not yield a plateau.

COMP-39
The first three gas fractions display anomalously young apparent ages, likely due to argon loss and alteration, and are not used in the plateau. The final gas fraction yielded an age much greater than 1 Ma and thus does not appear in the release spectra. Given the rise in Ca concentration, this could be the result of xenocrystic augite.

COMP-45
The first gas fraction yields an anomalously young apparent age, whereas the second gas fraction yields an anomalously old apparent age. This could be the result of argon loss/alteration and contamination. These two fractions are not used in the plateau. The

final six gas fractions are accompanied by an increase in Ca concentration, indicative of xenocrystic contamination, likely augite. None of these fractions are used for the construction of the plateau.

IXT-11
This sample does not yield a plateau and the age should be used with caution. Both the total gas age and correlation age yield negative ages at the 95% confidence level. Nonetheless, it is likely 1 Ma and thus must be included in our inventory.

COMP-22
The first gas fraction displays an anomalously young apparent age, likely due to argon loss and alteration and is not included in the plateau. The middle fractions yield a good plateau whereas the higher temperature fractions record an anomalously old age, perhaps due to the degassing of xenocrystic augite.

COMP-24
The first gas fraction displays an anomalously young apparent age, likely due to argon loss and alteration and is not included in the plateau. The last six gas fractions display a saddle shaped pattern, but no significant increase in the concentrations of Ca or Cl released. These fractions are not included in the plateau. The middle gas fractions have relatively large associated errors, but yield a plateau.

COMP-6
The first three gas fractions display anomalous apparent ages, likely due to a combination of contamination and argon loss and alteration, and are not included in the plateau. Although this sample appears to have a good plateau, the small errors on each gas fraction contribute to an MSWD of 2.72, which is statistically not a plateau. This leads to the isochron being an errorchron with an MSWD of 2.97. However, the total gas, plateau, and isochron ages are in good agreement, suggesting that the sample is < 60 ka.

COMP-21
This sample has a good plateau and there is good agreement among the total gas, plateau, and isochron ages.

IXT-66
The first two gas fractions display anomalous apparent ages, likely due to contamination and/or argon loss and alteration. These are not included in the construction of the plateau. The highest temperature gas fractions are also not included as they yield anomalously young apparent ages.

IXT-56
This sample does not yield a plateau and the age should be used with caution. Nonetheless, the sample is clearly < 1 Ma, within the error estimates.

IXT-26

This sample has a good plateau and there is good agreement among the total gas and plateau ages. The isochron age is slightly lower, which could be attributed to the small errors on each gas fraction and overall small error.

COMP-2

The first two gas fractions display anomalously young apparent ages, likely due to argon loss and alteration and are not included in the plateau. The middle fractions yield a good plateau whereas the highest temperature fractions record several anomalously old ages, perhaps due to the degassing of xenocrystic augite or hornblende. Steps 9-11 also record several anomalously young ages for unknown reasons.

COMP-7

In this biotite separate, the first gas fractions display anomalously young apparent ages, likely due to argon loss and alteration, and are thus not included in the plateau. The remaining 15 gas fractions display a good plateau.

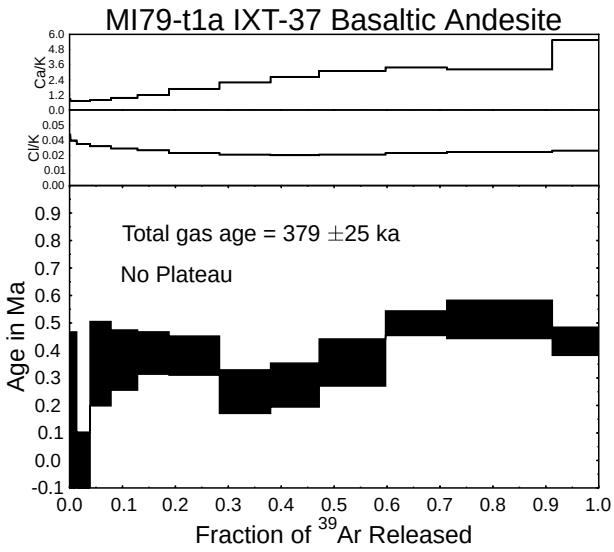
IXT-32

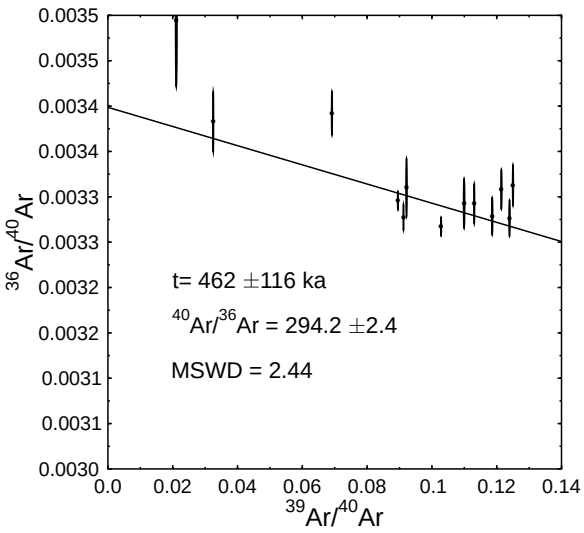
Many of the gas fractions yield negative ages, as do the total gas and isochron determinations. The negative ages result from the subtraction of initial ^{40}Ar from total ^{40}Ar, which are within error of zero.

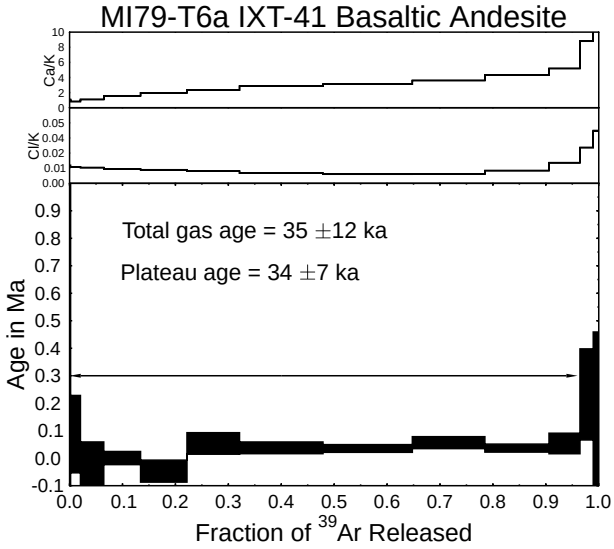
COMP-3

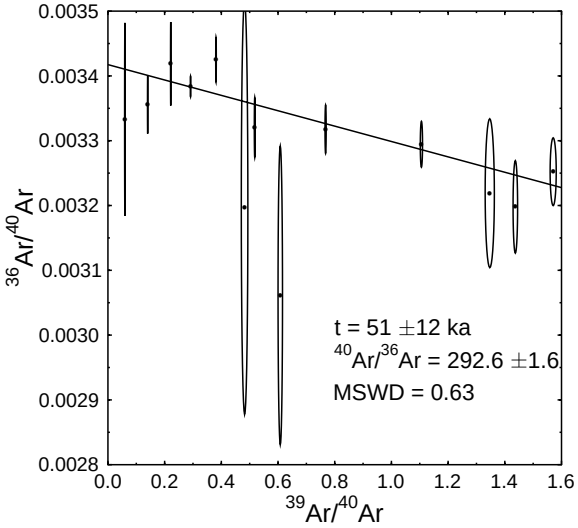
The low temperature gas fractions have extremely large errors, but the remaining fractions display a good plateau, with small errors on each gas fraction.

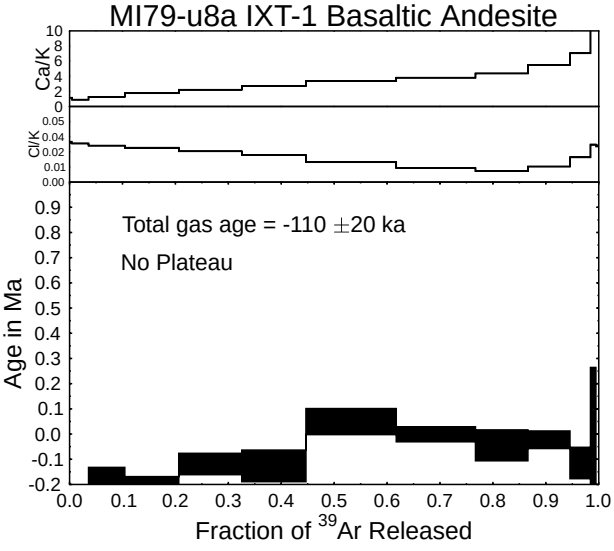
Data Repository

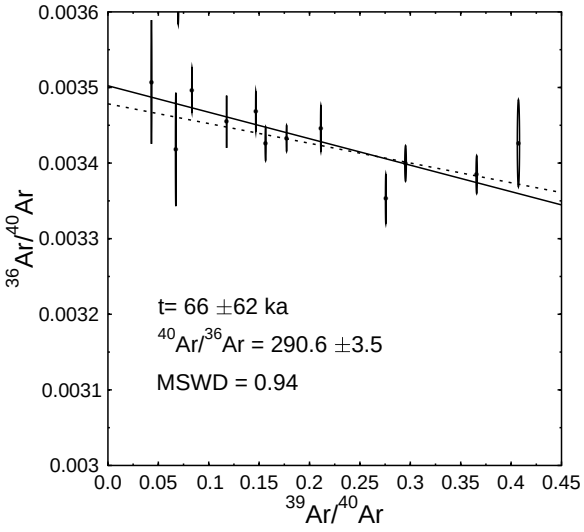


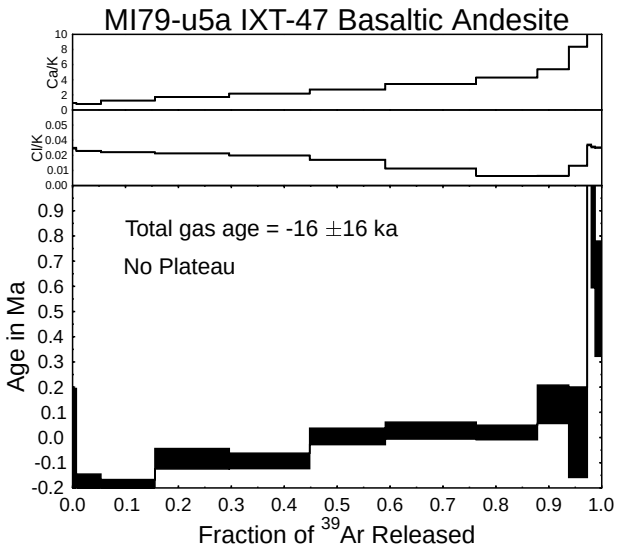


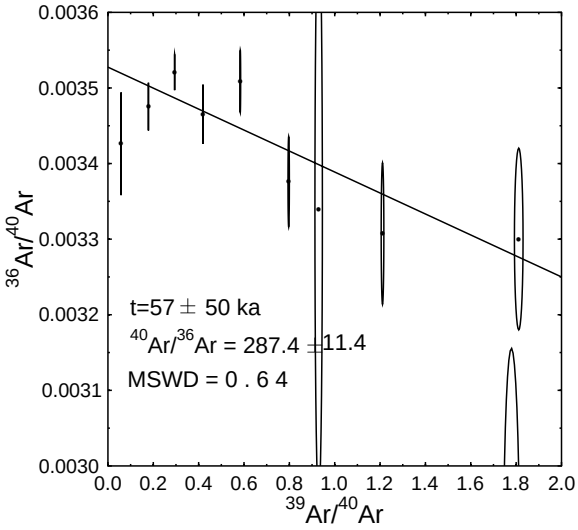


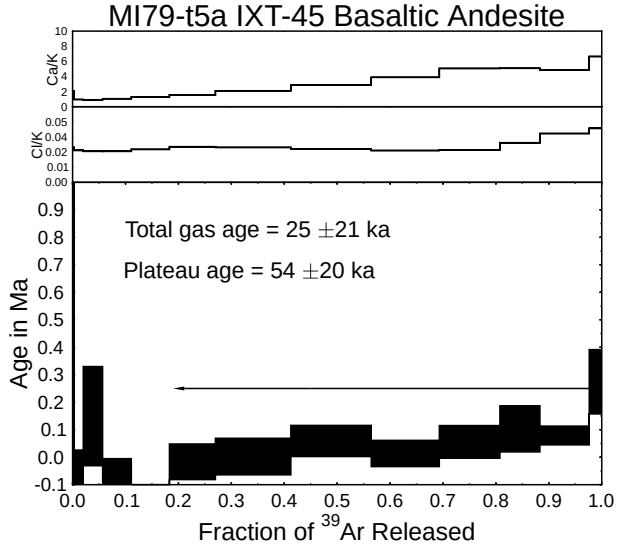


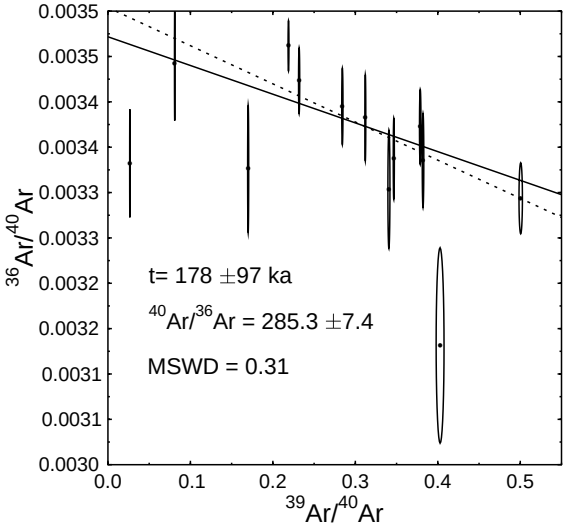


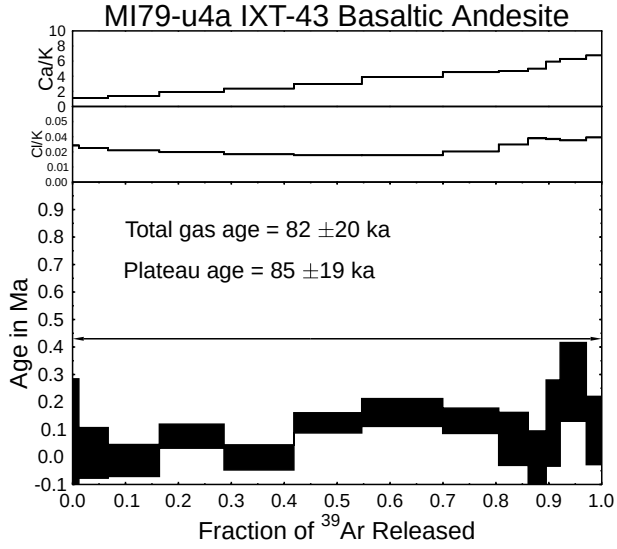


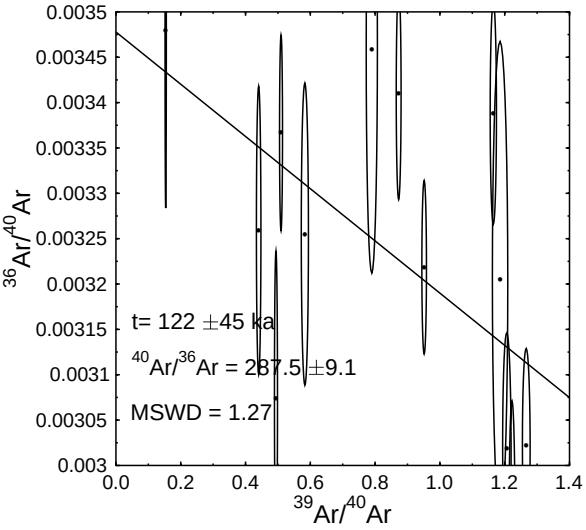

MI79-u5a IXT-47 Basaltic Andesite
Ca/K
Cl/K
Total gas age = -16 ±16 ka
No Plateau
Age in Ma
Fraction of 39Ar Released

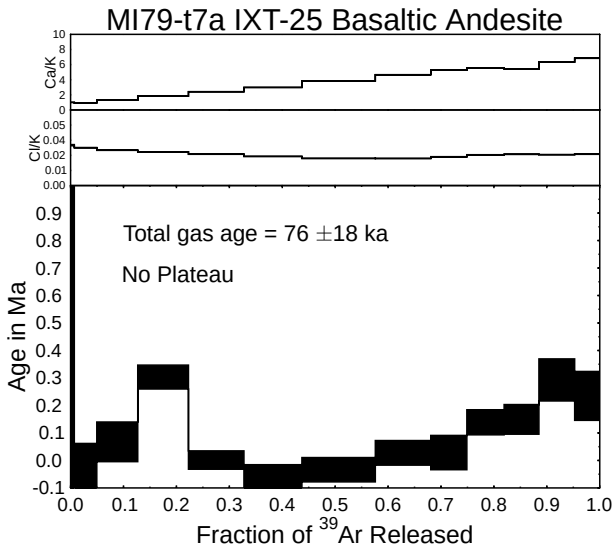

t=57 ± 50 ka
40Ar/36Ar = 287.4 ±11.4
MSWD = 0 . 6 4
36Ar/40Ar
39Ar/40Ar

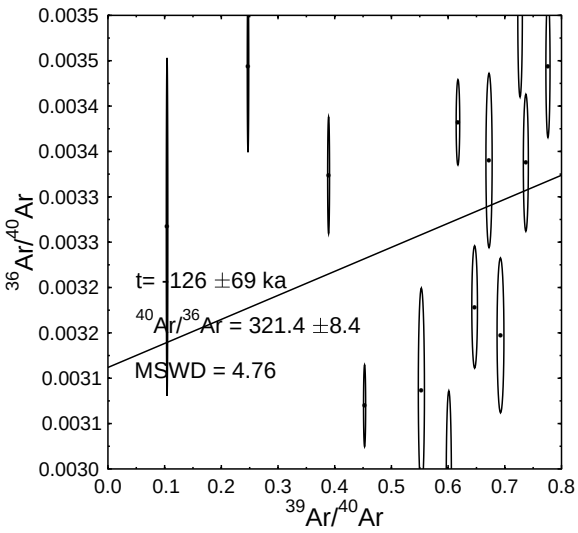

MI79-t5a IXT-45 Basaltic Andesite
Ca/K
Cl/K
Total gas age = 25 ±21 ka
Plateau age = 54 ±20 ka
Age in Ma
Fraction of 39Ar Released

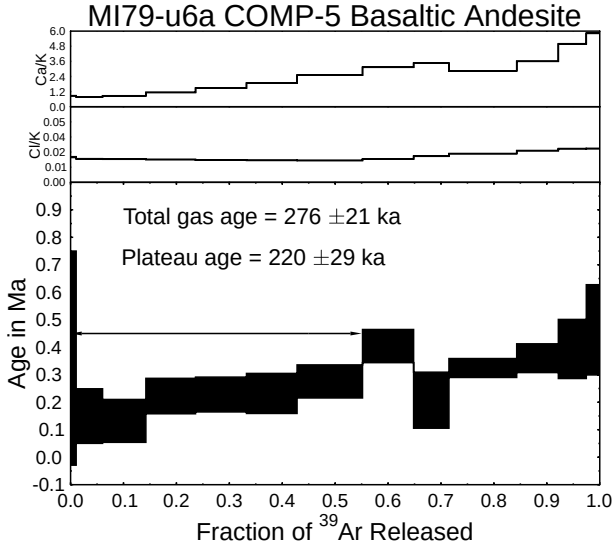

t= 178 ±97 ka
40Ar/36Ar = 285.3 ±7.4
MSWD = 0.31
36Ar/40Ar
39Ar/40Ar

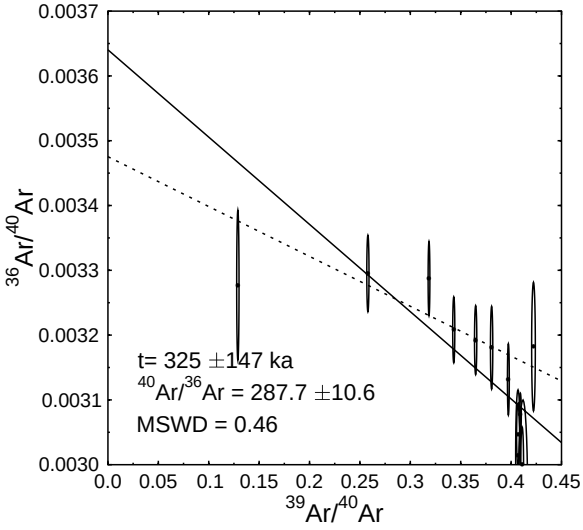

MI79-u4a IXT-43 Basaltic Andesite
Ca/K
Cl/K
Total gas age = 82 ±20 ka
Plateau age = 85 ±19 ka
Age in Ma
Fraction of 39Ar Released

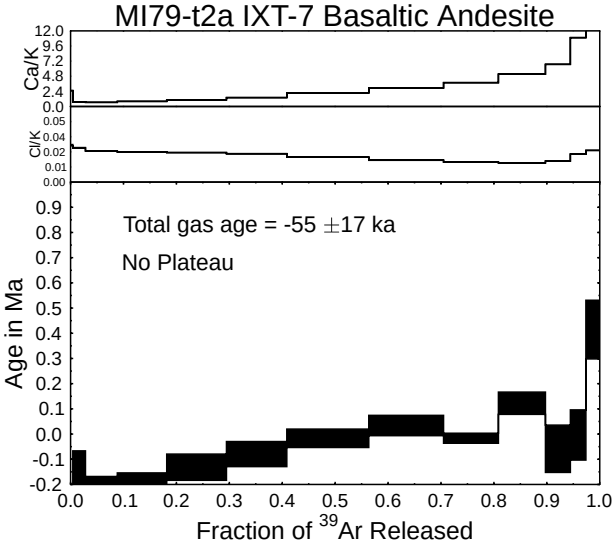

t= 122 ±45 ka
40Ar/36Ar = 287.5 ±9.1
MSWD = 1.27
36Ar/40Ar
39Ar/40Ar

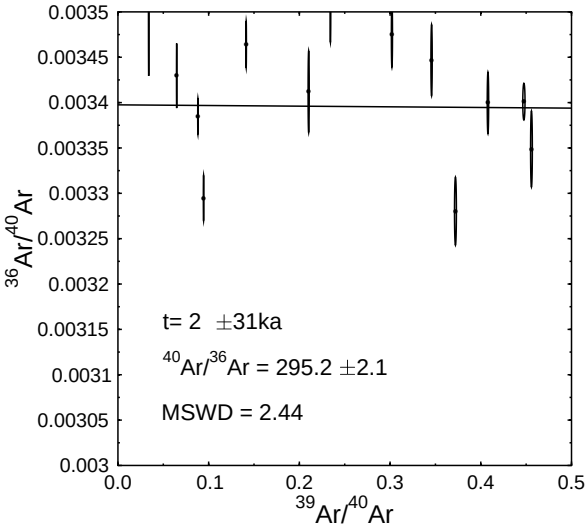

MI79-t7a IXT-25 Basaltic Andesite
Ca/K
Cl/K
Total gas age = 76 ±18 ka
No Plateau
Age in Ma
Fraction of 39Ar Released

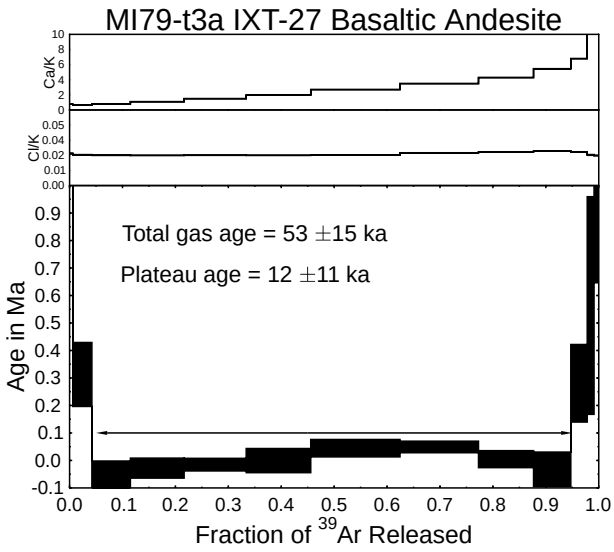

t= -126 ±69 ka
40Ar/36Ar = 321.4 ±8.4
MSWD = 4.76
36Ar/40Ar
39Ar/40Ar

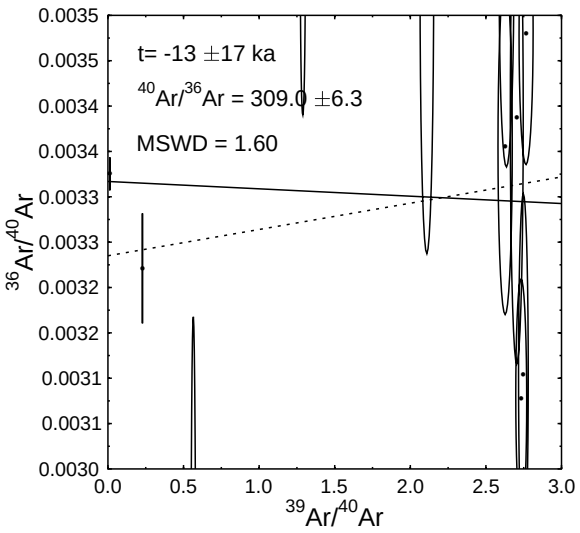

MI79-u6a COMP-5 Basaltic Andesite
Ca/K
Cl/K
Total gas age = 276 ±21 ka
Plateau age = 220 ±29 ka
Age in Ma
Fraction of 39Ar Released

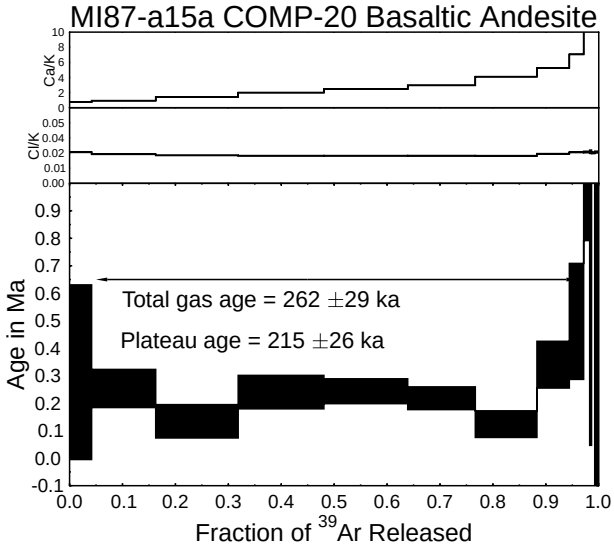

t= 325 ±147 ka
40Ar/36Ar = 287.7 ±10.6
MSWD = 0.46
36Ar/40Ar
39Ar/40Ar

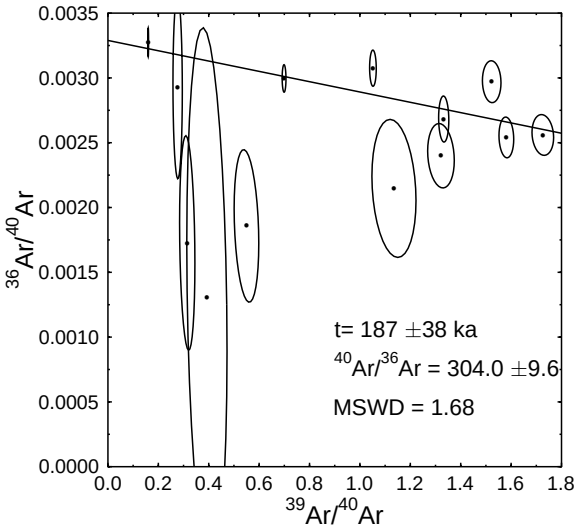

MI79-t2a IXT-7 Basaltic Andesite
Ca/K
Cl/K
Total gas age = -55 ±17 ka
No Plateau
Age in Ma
Fraction of 39Ar Released

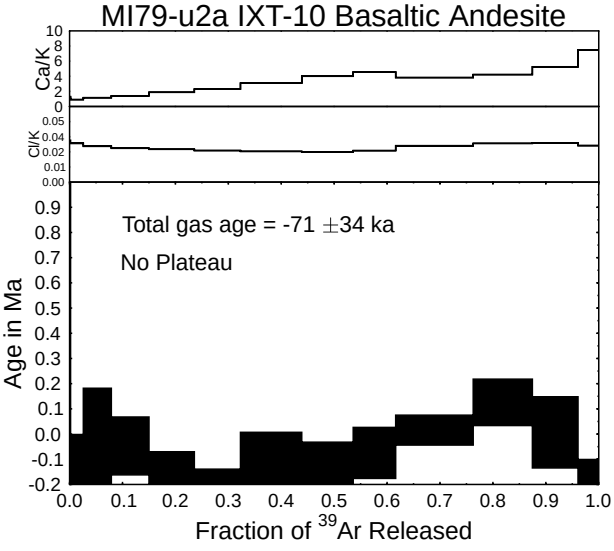

t= 2 ±31ka
40Ar/36Ar = 295.2 ±2.1
MSWD = 2.44
36Ar/40Ar
39Ar/40Ar

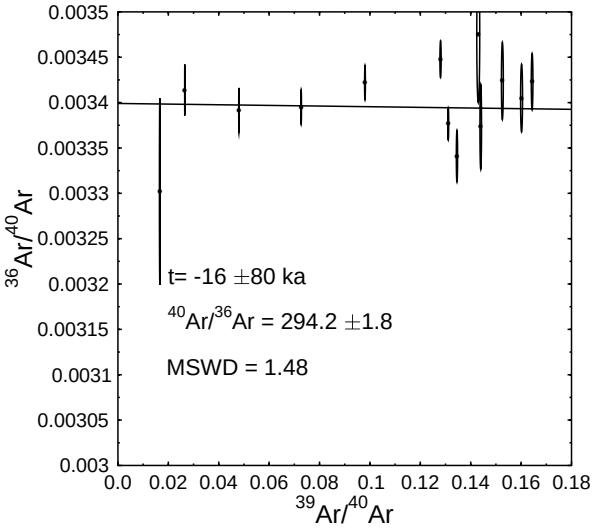

MI79-t3a IXT-27 Basaltic Andesite
Ca/K
Cl/K
Total gas age = 53 ±15 ka
Plateau age = 12 ±11 ka
Age in Ma
Fraction of 39Ar Released

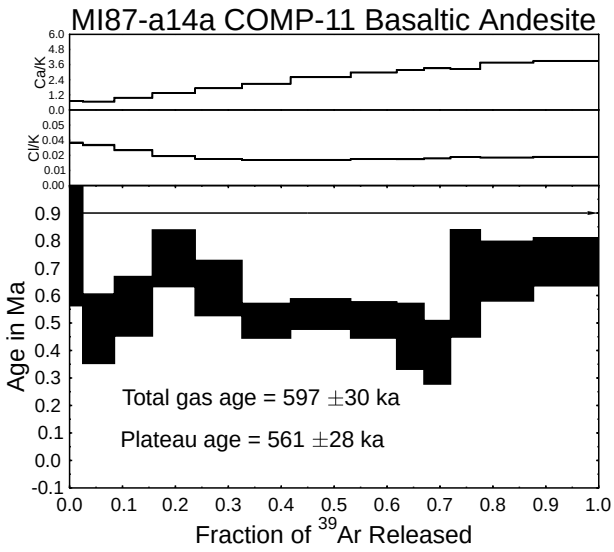

t= -13 ±17 ka
40Ar/36Ar = 309.0 ±6.3
MSWD = 1.60
36Ar/40Ar
39Ar/40Ar

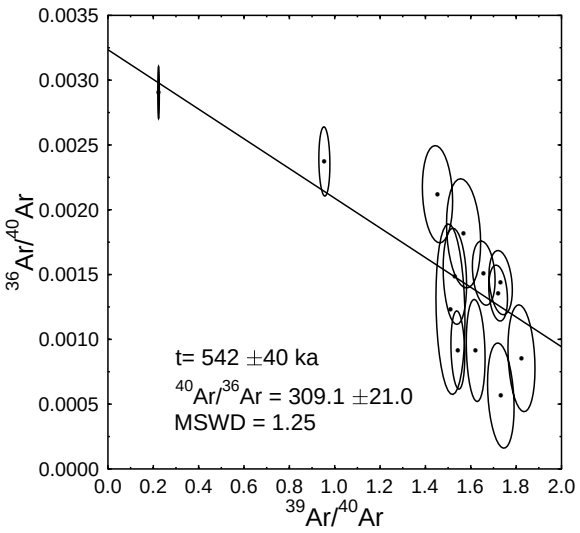

MI87-a15a COMP-20 Basaltic Andesite
Ca/K
Cl/K
Total gas age = 262 ±29 ka
Plateau age = 215 ±26 ka
Age in Ma
Fraction of 39Ar Released

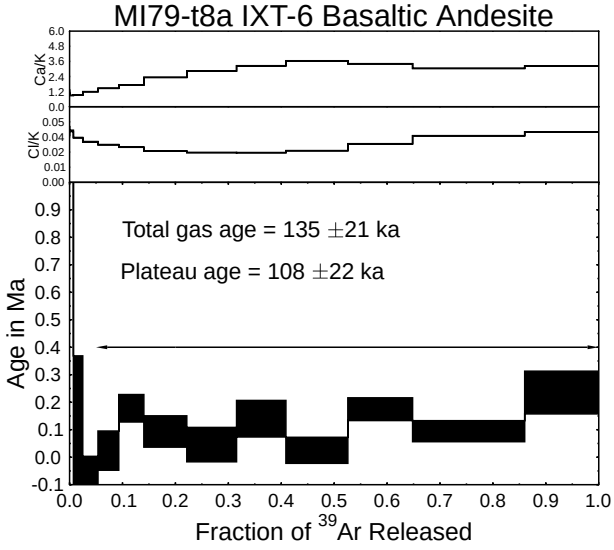

t= 187 ±38 ka
40Ar/36Ar = 304.0 ±9.6
MSWD = 1.68
36Ar/40Ar
39Ar/40Ar

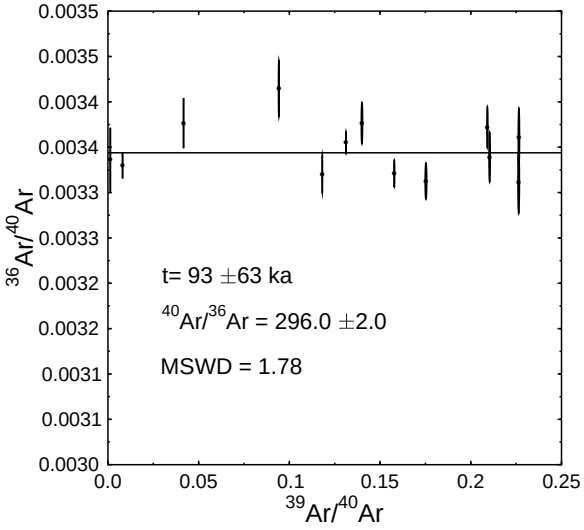

MI79-u2a IXT-10 Basaltic Andesite
Ca/K
Cl/K
Total gas age = -71 ±34 ka
No Plateau
Age in Ma
Fraction of 39Ar Released

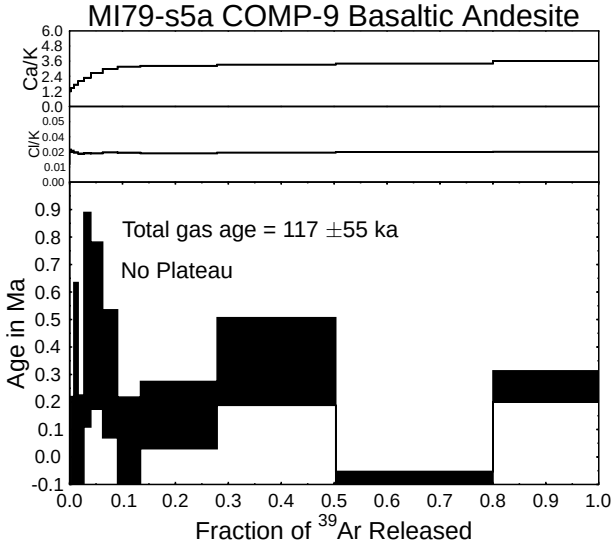

t= -16 ±80 ka
40Ar/36Ar = 294.2 ±1.8
MSWD = 1.48
36Ar/40Ar
39Ar/40Ar

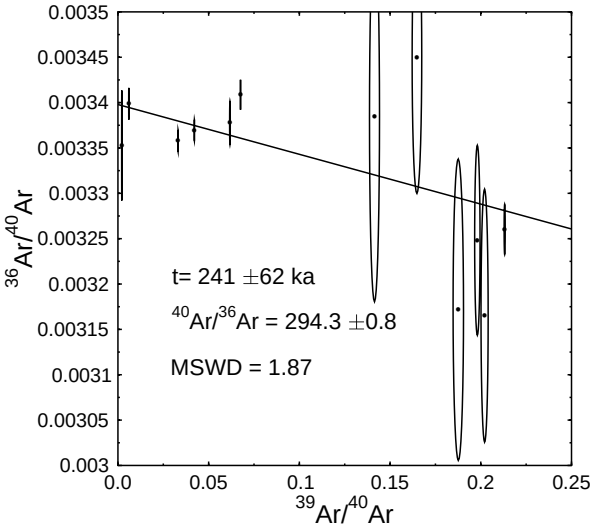

MI87-a14a COMP-11 Basaltic Andesite
Ca/K
Cl/K
Age in Ma
Total gas age = 597 ±30 ka
Plateau age = 561 ±28 ka
Fraction of 39Ar Released

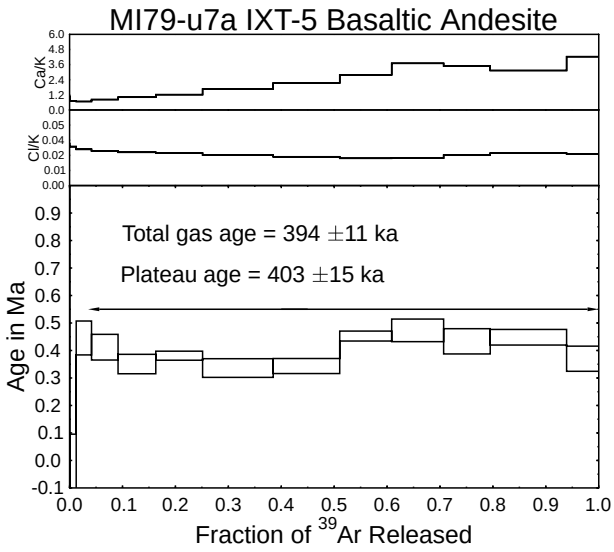

36Ar/40Ar
t= 542 ±40 ka
40Ar/36Ar = 309.1 ±21.0
MSWD = 1.25
39Ar/40Ar

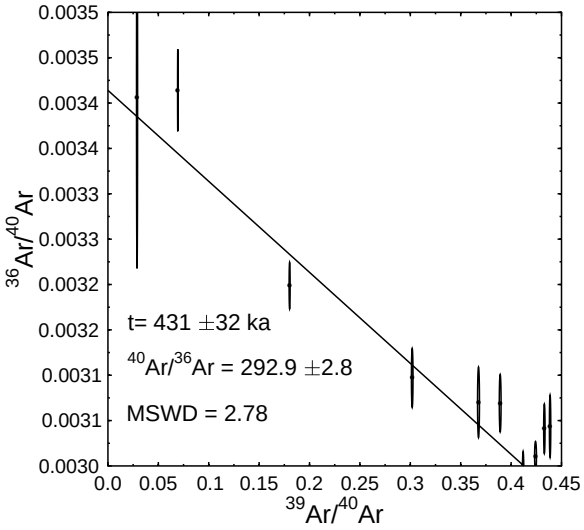

MI79-t8a IXT-6 Basaltic Andesite
Ca/K
Cl/K
Age in Ma
Total gas age = 135 ±21 ka
Plateau age = 108 ±22 ka
Fraction of 39Ar Released

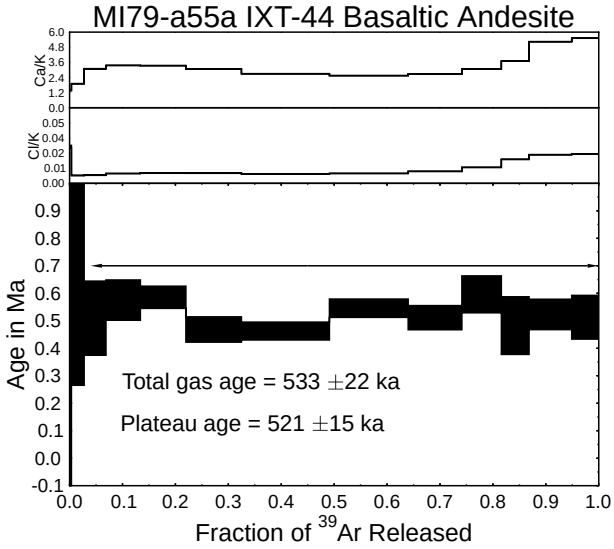

36Ar/40Ar
t= 93 ±63 ka
40Ar/36Ar = 296.0 ±2.0
MSWD = 1.78
39Ar/40Ar

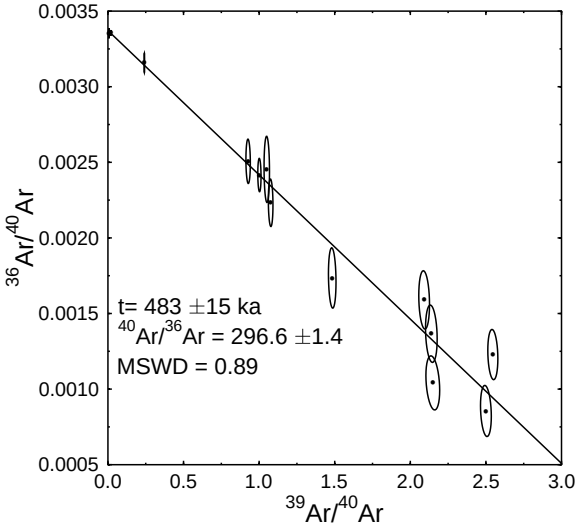

MI79-s5a COMP-9 Basaltic Andesite
Ca/K
Cl/K
Age in Ma
Total gas age = 117 ±55 ka
No Plateau
Fraction of 39Ar Released


36Ar/40Ar
t= 241 ±62 ka
40Ar/36Ar = 294.3 ±0.8
MSWD = 1.87
39Ar/40Ar

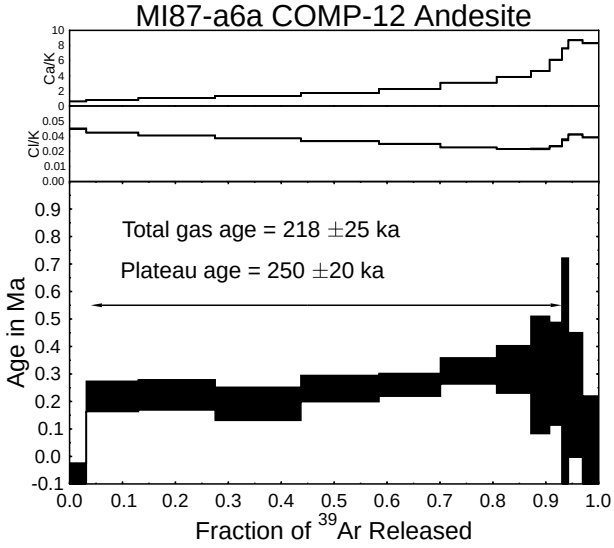

MI79-u7a IXT-5 Basaltic Andesite
Ca/K
Cl/K
Total gas age = 394 ±11 ka
Plateau age = 403 ±15 ka
Age in Ma
Fraction of 39Ar Released

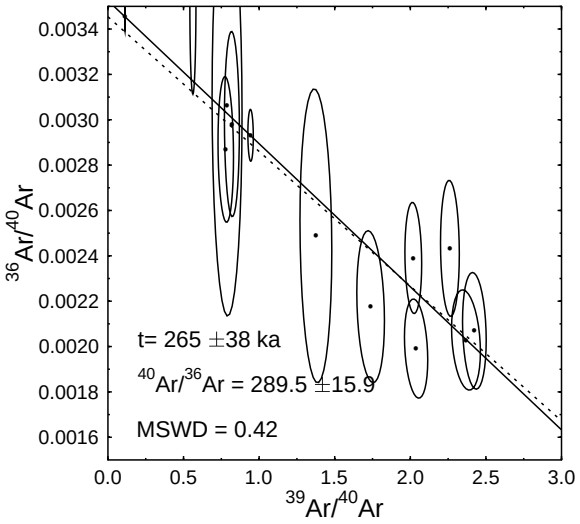

t= 431 ±32 ka
40Ar/36Ar = 292.9 ±2.8
MSWD = 2.78
36Ar/40Ar
39Ar/40Ar


MI79-a55a IXT-44 Basaltic Andesite
Ca/K
Cl/K
Total gas age = 533 ±22 ka
Plateau age = 521 ±15 ka
Age in Ma
Fraction of 39Ar Released

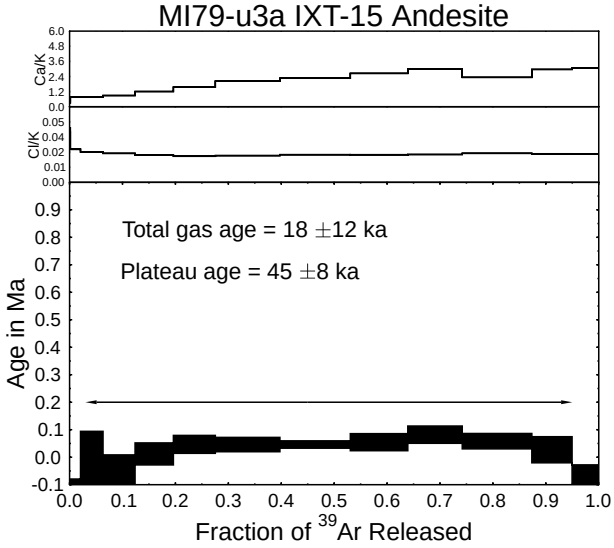

t= 483 ±15 ka
40Ar/36Ar = 296.6 ±1.4
MSWD = 0.89
36Ar/40Ar
39Ar/40Ar

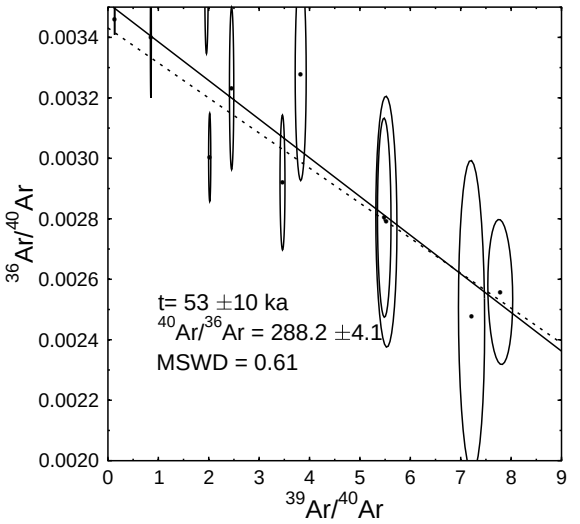
MI87-a6a COMP-12 Andesite



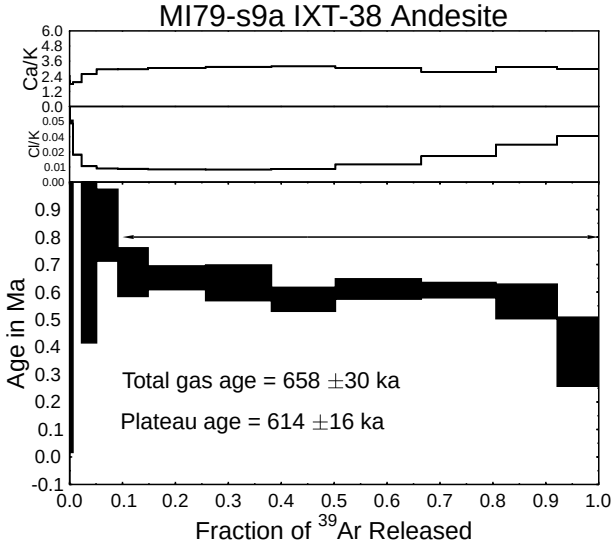


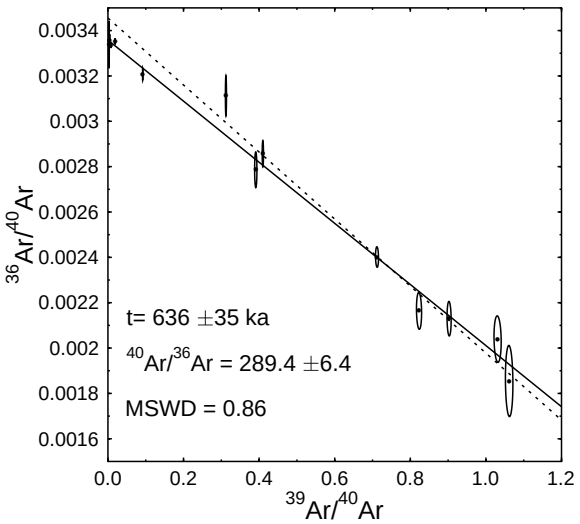
MI79-u3a IXT-15 Andesite



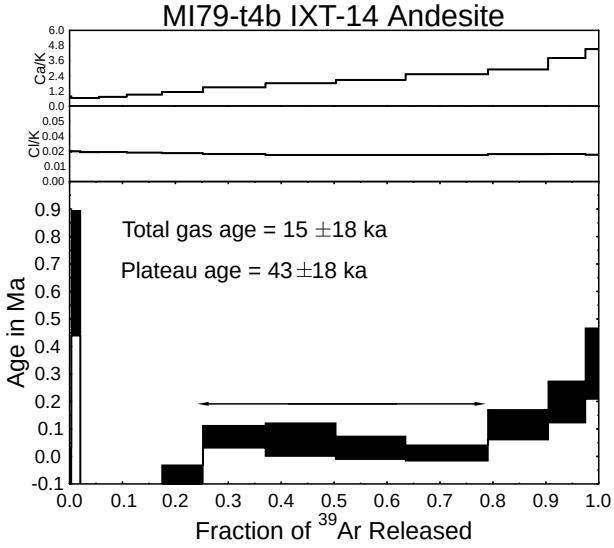


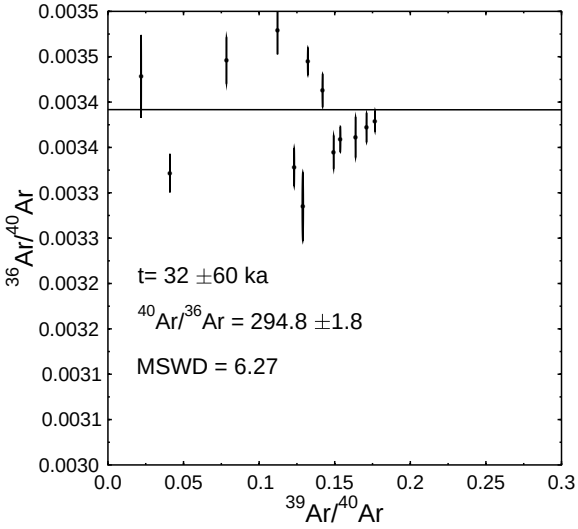
MI79-s9a IXT-38 Andesite



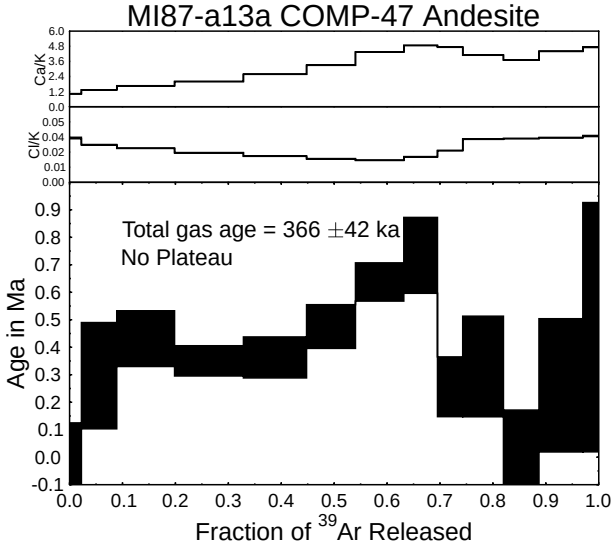


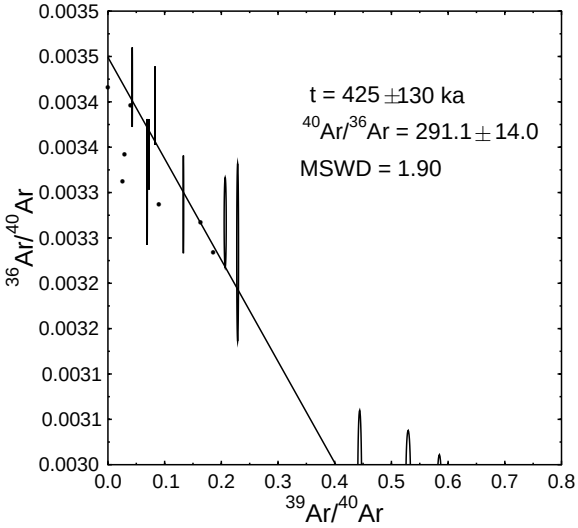
MI79-t4b IXT-14 Andesite



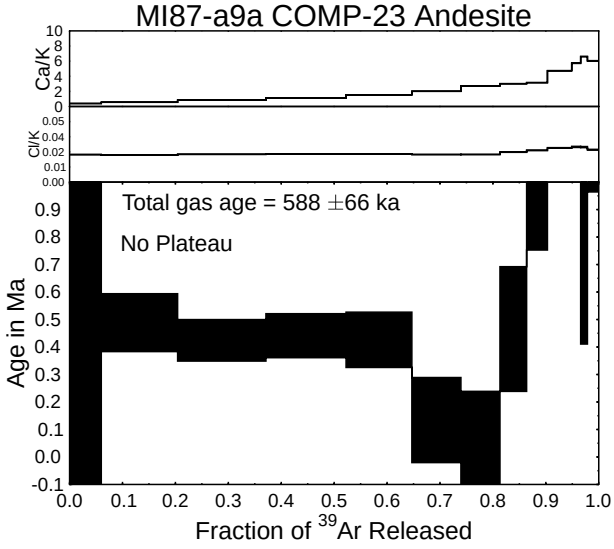


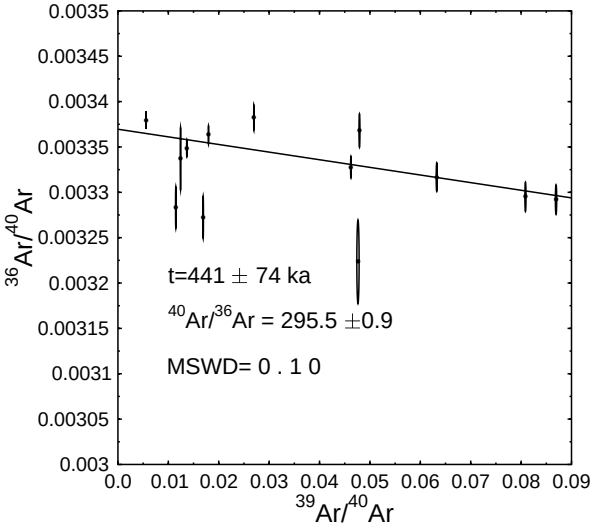
MI87-a13a COMP-47 Andesite



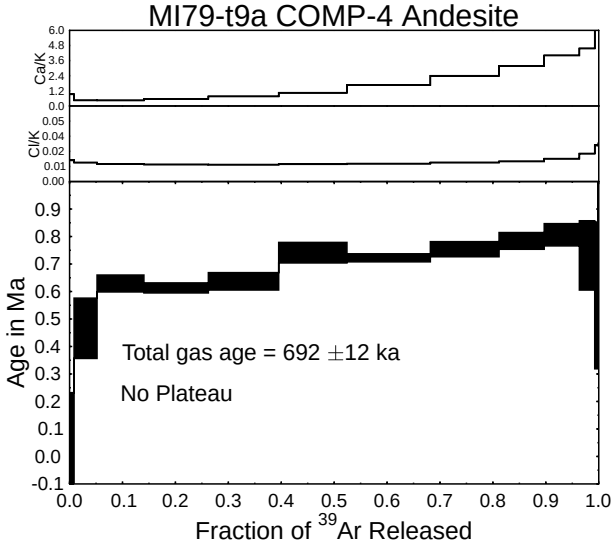


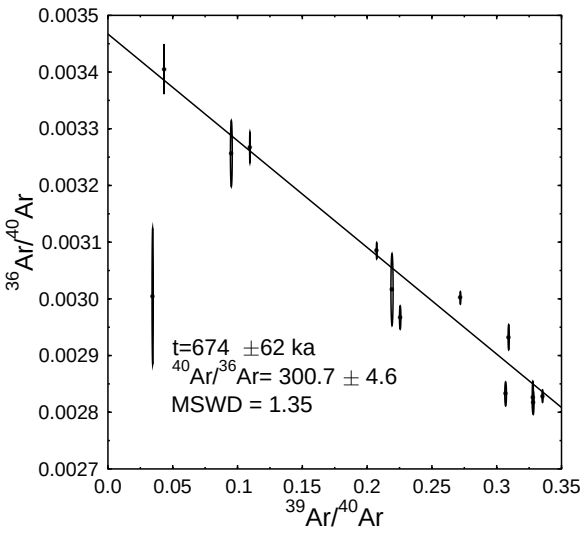
MI87-a9a COMP-23 Andesite



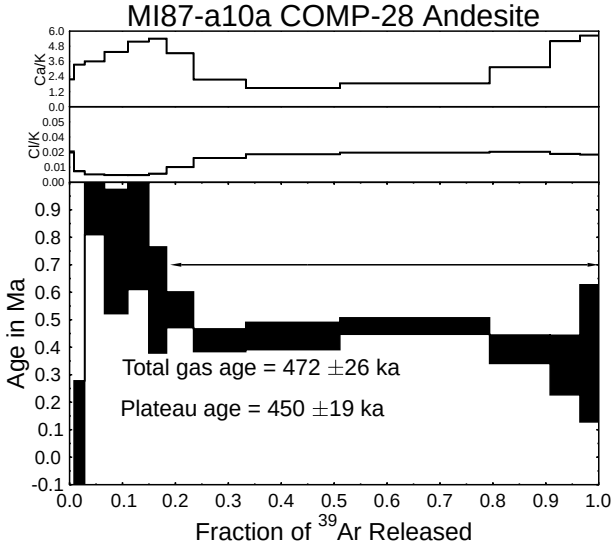


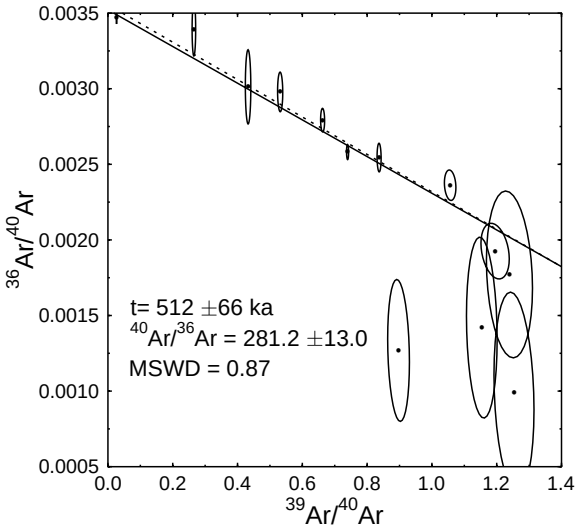
MI79-t9a COMP-4 Andesite



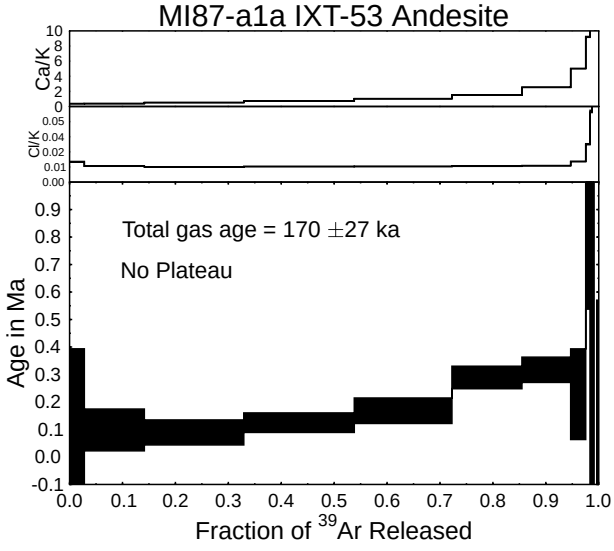


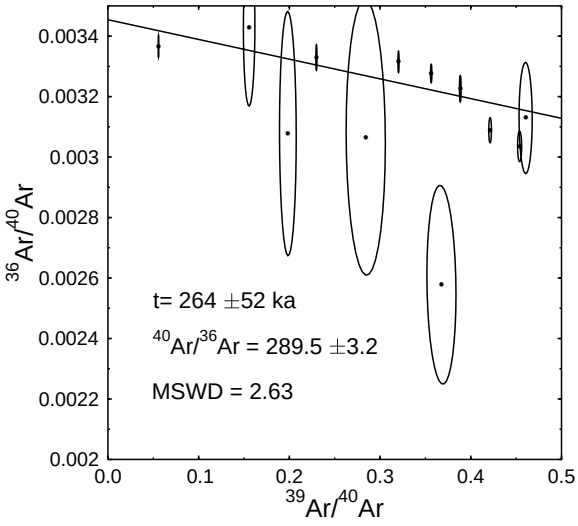
MI87-a10a COMP-28 Andesite



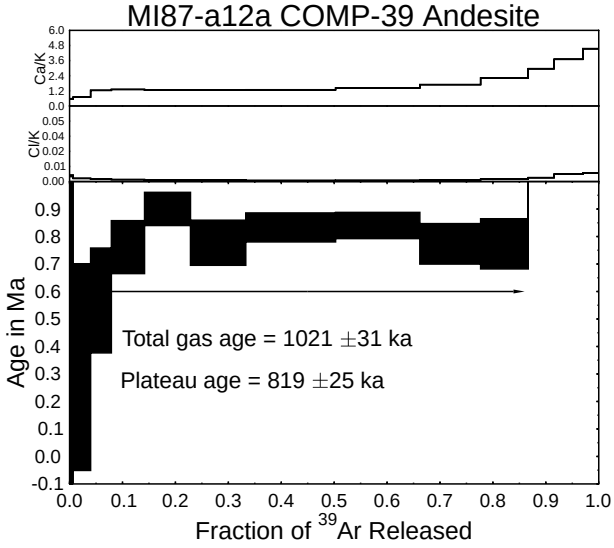


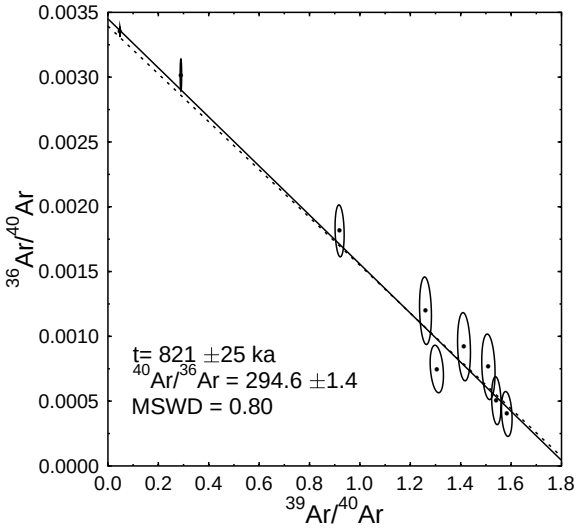
MI87-a1a IXT-53 Andesite



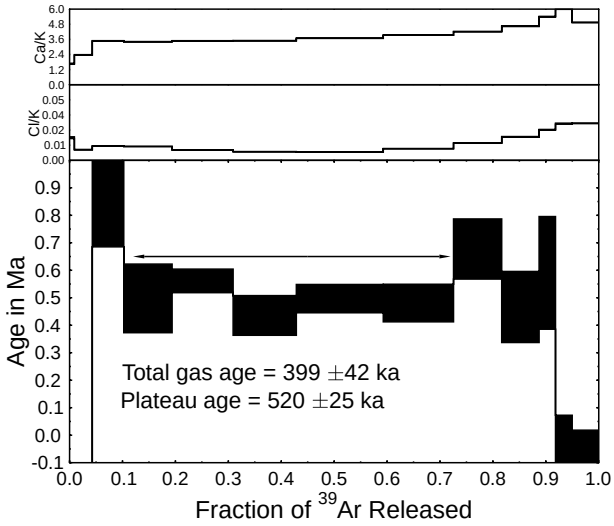


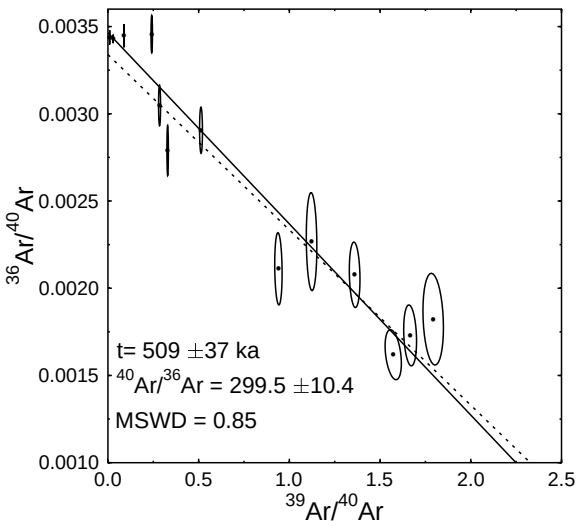
MI87-a12a COMP-39 Andesite



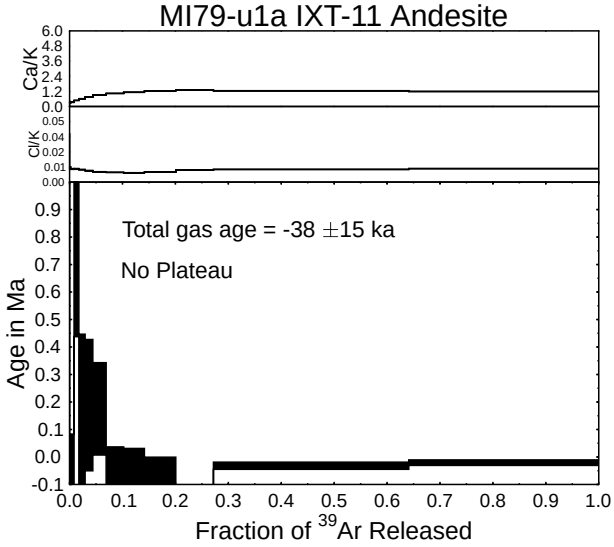


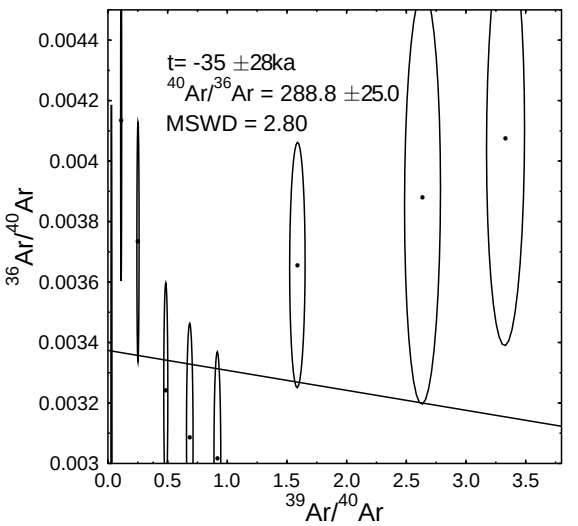
MI87-c27a COMP-45 Basaltic Andesite



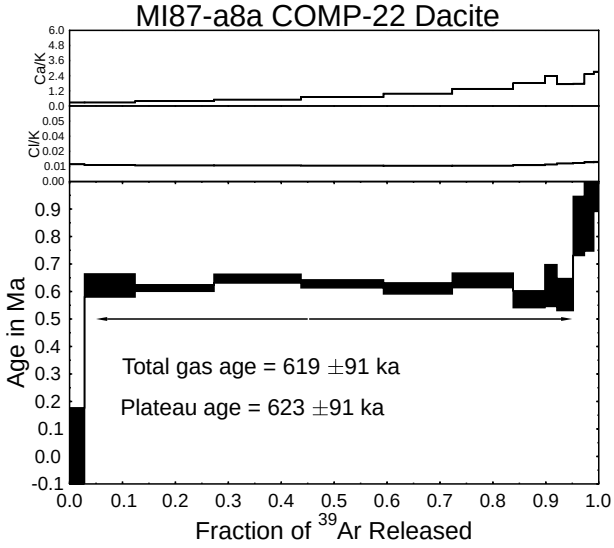


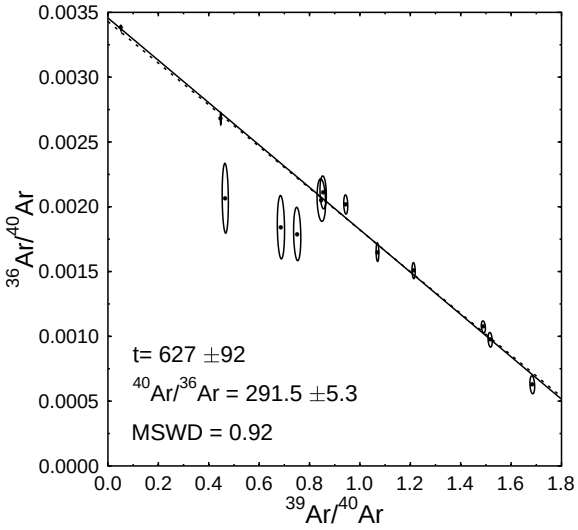
MI79-u1a IXT-11 Andesite



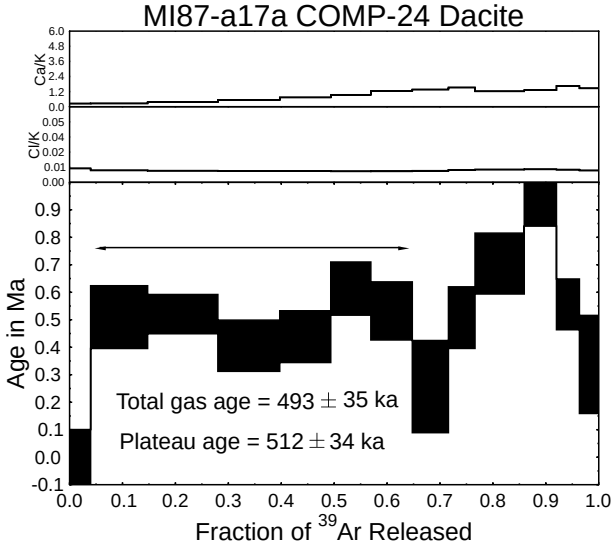


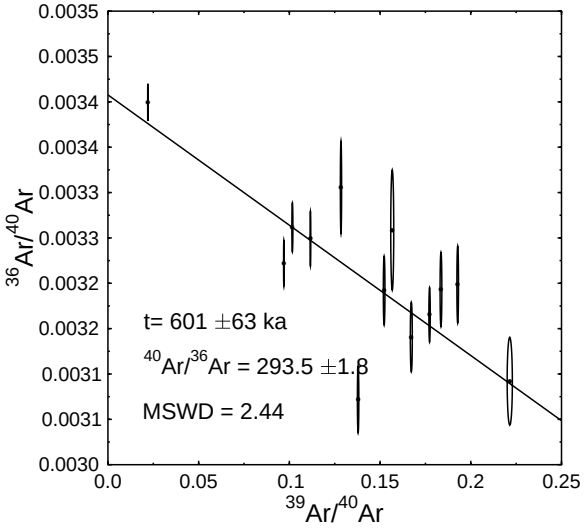
MI87-a8a COMP-22 Dacite



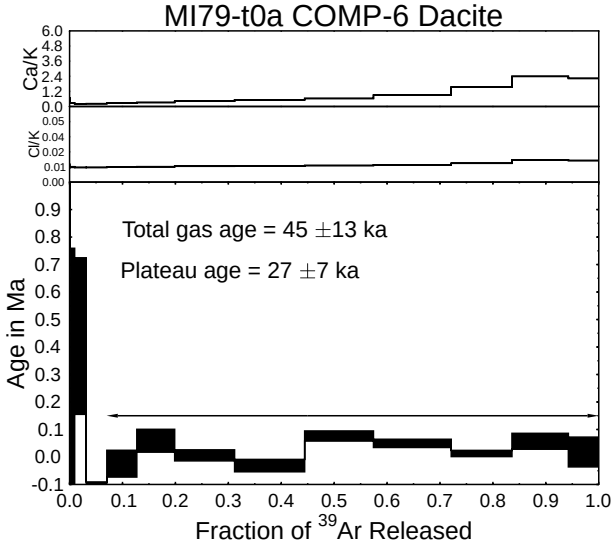


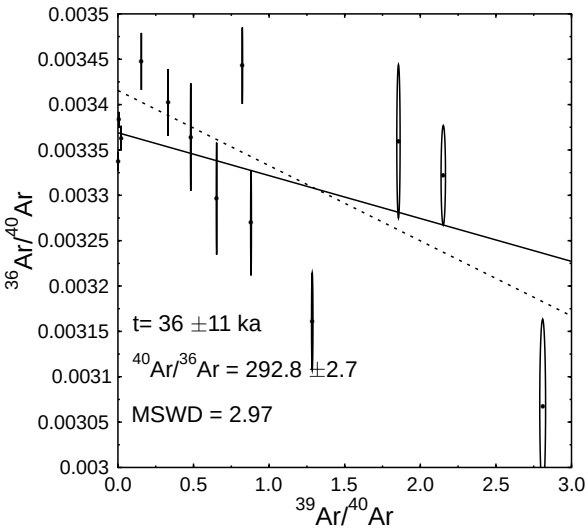
MI87-a17a COMP-24 Dacite

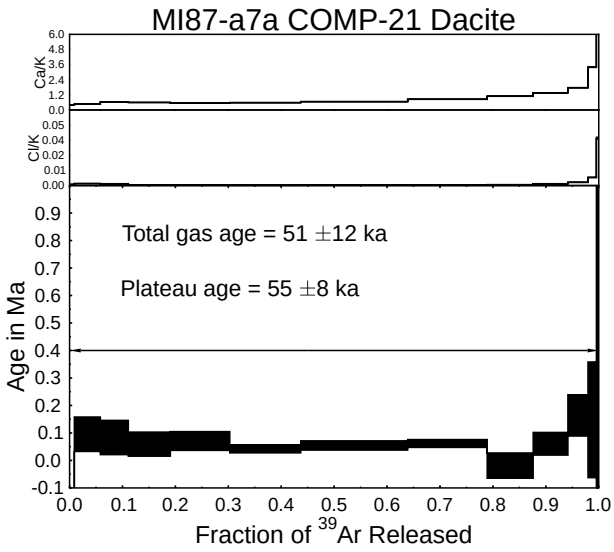


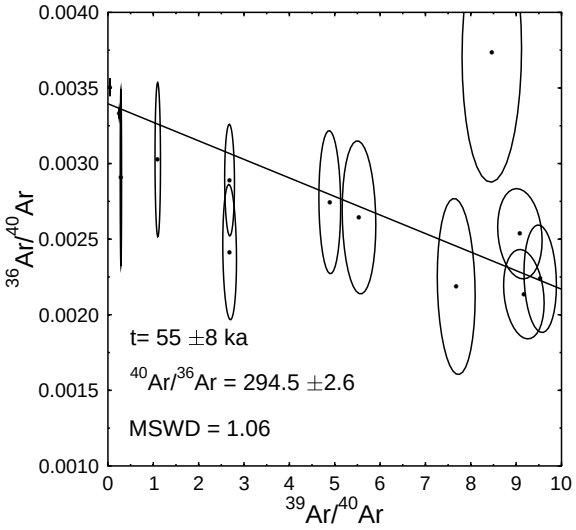


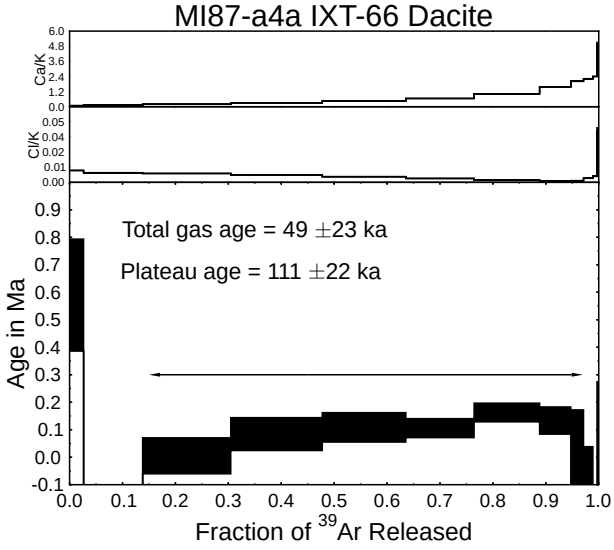
MI79-t0a COMP-6 Dacite

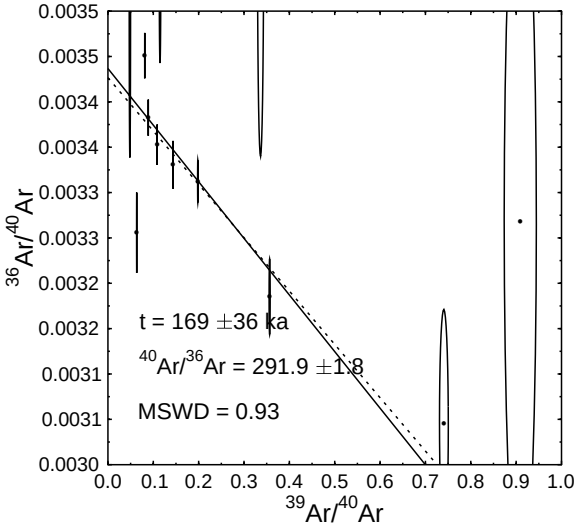


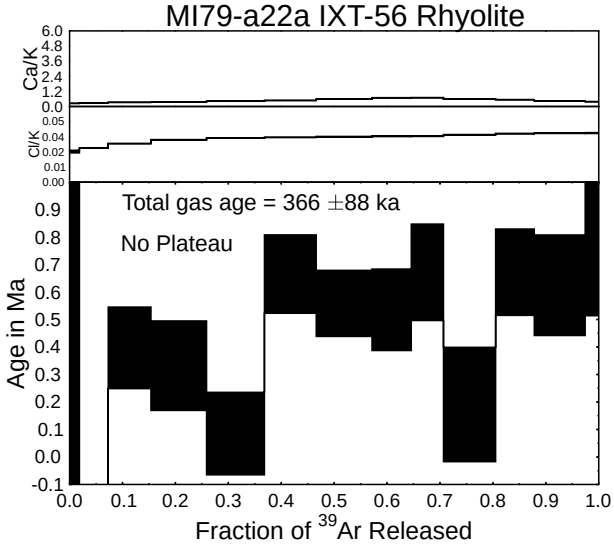


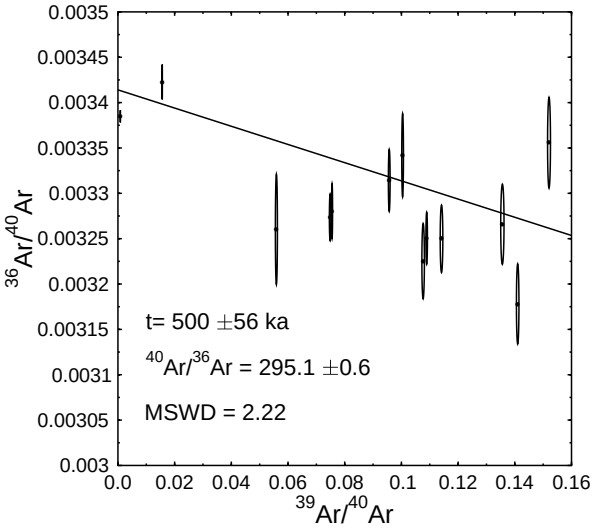

MI87-a7a COMP-21 Dacite
Ca/K
Cl/K
Total gas age = 51 ±12 ka
Plateau age = 55 ±8 ka
Age in Ma
Fraction of 39Ar Released


36Ar/40Ar
t= 55 ±8 ka
40Ar/36Ar = 294.5 ±2.6
MSWD = 1.06
39Ar/40Ar

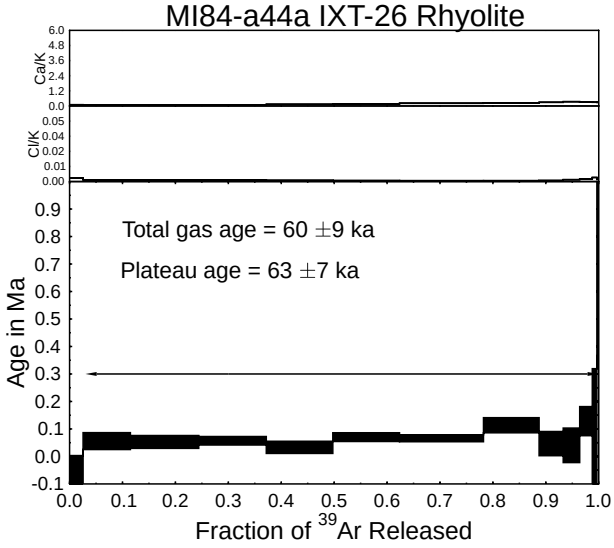

MI87-a4a IXT-66 Dacite
Ca/K
Cl/K
Total gas age = 49 ±23 ka
Plateau age = 111 ±22 ka
Age in Ma
Fraction of 39Ar Released

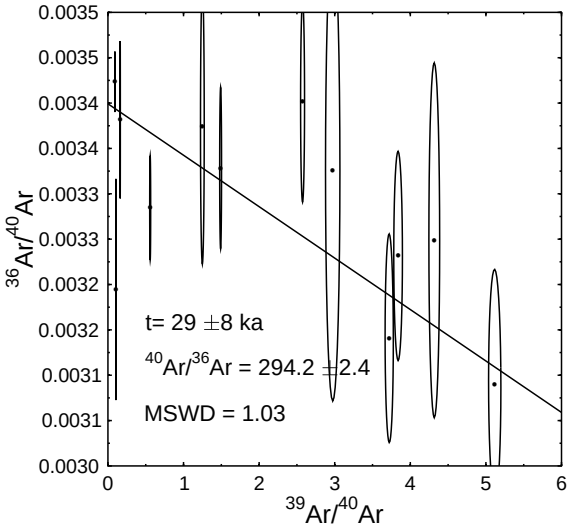

36Ar/40Ar
t = 169 ±36 ka
40Ar/36Ar = 291.9 ±1.8
MSWD = 0.93
39Ar/40Ar


MI79-a22a IXT-56 Rhyolite
Ca/K
Cl/K
Total gas age = 366 ±88 ka
No Plateau
Age in Ma
Fraction of 39Ar Released

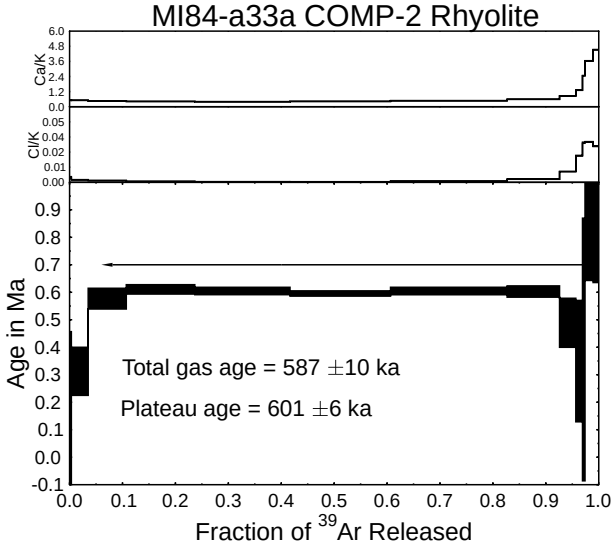

36Ar/40Ar
t= 500 ±56 ka
40Ar/36Ar = 295.1 ±0.6
MSWD = 2.22
39Ar/40Ar

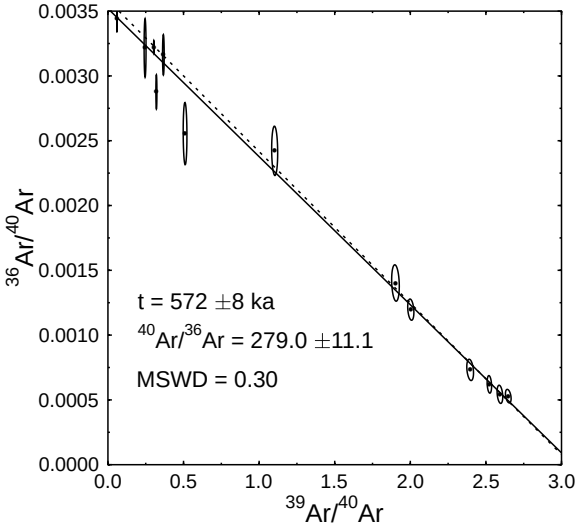
MI84-a44a IXT-26 Rhyolite



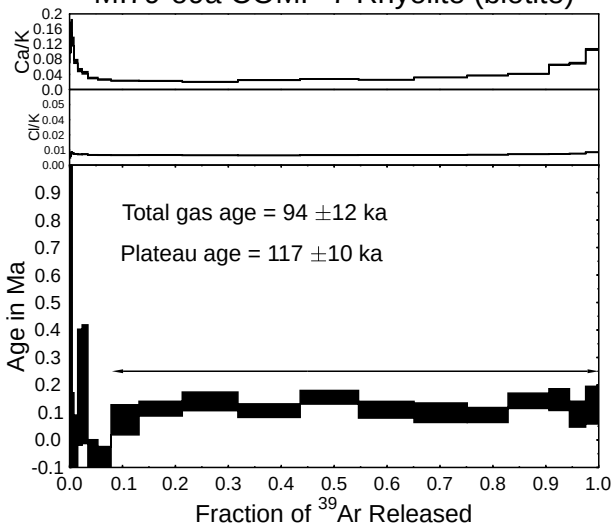


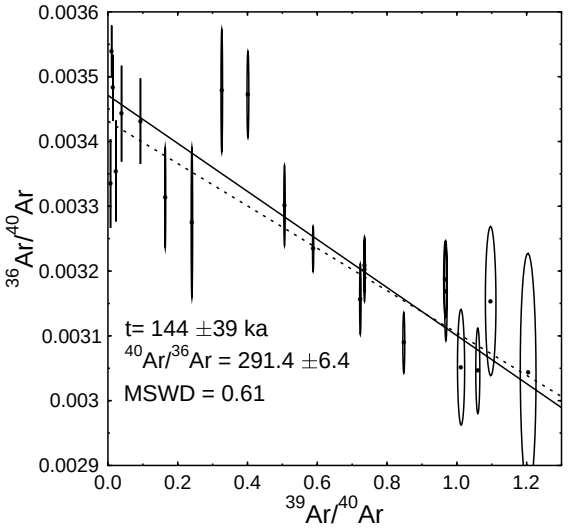
MI84-a33a COMP-2 Rhyolite

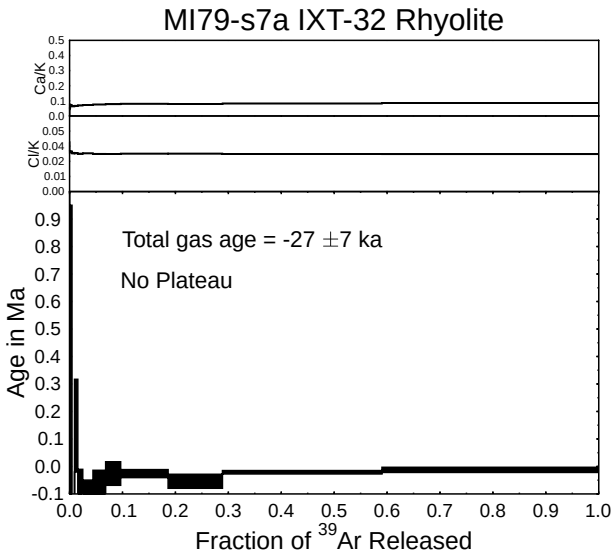


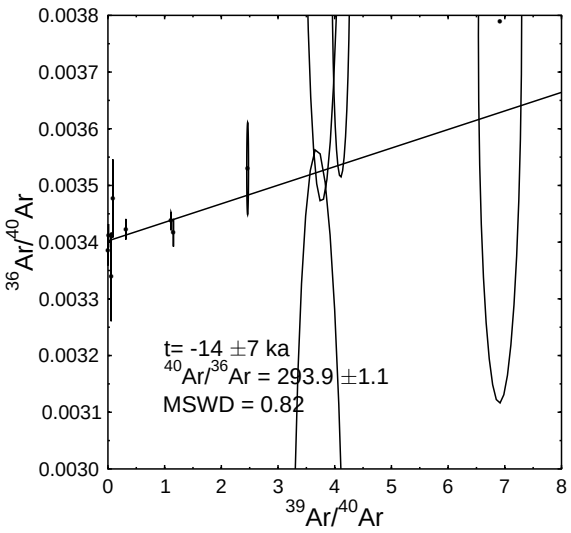


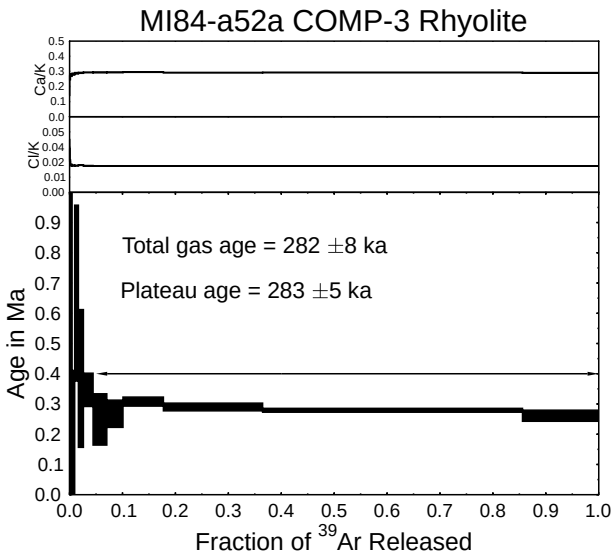
MI79-o9a COMP-7 Rhyolite (biotite)






MI79-s7a IXT-32 Rhyolite
Ca/K
Cl/K
Total gas age = -27 ±7 ka
No Plateau
Age in Ma
Fraction of 39Ar Released


t= -14 ±7 ka
40Ar/36Ar = 293.9 ±1.1
MSWD = 0.82
36Ar/40Ar
39Ar/40Ar


MI84-a52a COMP-3 Rhyolite
Ca/K
Cl/K
Total gas age = 282 ±8 ka
Plateau age = 283 ±5 ka
Age in Ma
Fraction of 39Ar Released

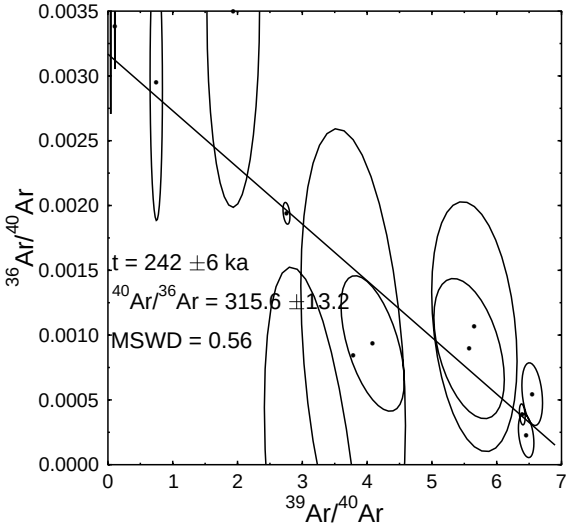

t = 242 ±6 ka
40Ar/36Ar = 315.6 ±13.2
MSWD = 0.56
36Ar/40Ar
39Ar/40Ar

TABLE DR1. Ar GAS FRACTIONS RELEASED BY LASER-STEP HEATING

mi79-t1a	mass=	0.027	J=	0.000823346	+/-	0.000001561		tot.gas.age=			0.379	+/-	0.025
MI79 T1a IXT-37	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.002	100	4.213	0.088	11.819	0.259	5.564	0.125	25.437	0.229	1205.560	1.934	-2.299	1.527
	0.013	200	18.298	0.179	69.849	0.445	33.272	0.273	175.873	0.385	5409.158	4.230	0.018	0.449
	0.039	300	18.722	0.133	148.462	1.037	63.401	0.288	381.614	0.327	5519.409	3.221	-0.050	0.153
	0.078	400	21.357	0.207	254.585	0.952	92.234	0.219	594.614	0.796	6451.966	2.661	0.352	0.153
	0.128	500	22.587	0.188	399.026	0.740	109.820	0.230	754.182	0.872	6859.988	2.903	0.365	0.109
	0.188	600	24.740	0.156	577.397	0.871	123.784	0.444	895.069	0.547	7546.214	3.199	0.391	0.077
	0.283	800	37.917	0.231	1315.228	1.453	183.762	0.599	1434.449	1.410	11572.691	5.647	0.381	0.071
	0.380	1000	38.502	0.261	1728.651	2.012	177.264	0.656	1453.011	0.944	11622.129	3.457	0.250	0.079
	0.472	1200	37.660	0.250	1982.021	4.522	165.466	0.605	1382.407	1.261	11383.696	5.640	0.274	0.080
	0.597	1600	54.924	0.367	3188.655	4.616	231.227	0.814	1886.411	1.259	16682.497	4.180	0.356	0.086
	0.713	2000	55.305	0.176	3198.332	4.150	224.373	0.493	1740.563	1.579	16927.829	3.979	0.499	0.045
	0.912	3000	107.786	0.474	5259.248	4.119	401.760	0.766	3000.089	1.888	32887.385	7.968	0.513	0.069
	1.000	4000	48.612	0.152	3986.373	5.174	183.506	0.522	1320.183	1.151	14750.262	5.349	0.434	0.051
mi79-t6a	mass=	0.026	J=	0.000819925	+/-	0.000001328		tot.gas.age=			0.035	+/-	0.012	
MI79 T6a IXT-41	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.002	100	1.646	0.073	17.479	0.413	2.248	0.078	29.576	0.232	493.849	1.505	0.373	1.086
	0.021	200	6.898	0.093	129.142	0.803	19.060	0.169	288.091	0.621	2055.435	1.684	0.088	0.141
	0.065	300	10.529	0.199	406.352	1.304	42.498	0.412	682.128	1.059	3079.948	1.973	-0.068	0.127
	0.134	400	12.504	0.058	926.442	2.125	60.680	0.275	1076.811	1.106	3695.246	1.500	0.001	0.024
	0.222	500	12.198	0.124	1460.617	2.581	71.779	0.286	1357.625	1.450	3561.281	3.551	-0.047	0.040
	0.321	600	9.857	0.137	1952.400	2.489	72.756	0.444	1537.327	1.635	2968.586	1.349	0.054	0.039
	0.479	800	10.549	0.119	3814.652	3.053	95.687	0.395	2441.149	1.622	3179.378	1.977	0.038	0.021
	0.648	1000	7.790	0.083	4438.690	5.684	91.240	0.363	2614.632	1.527	2364.406	2.264	0.035	0.014
	0.785	1200	4.722	0.105	4168.227	3.322	75.912	0.424	2122.129	1.332	1476.655	1.766	0.057	0.022
	0.906	1600	3.884	0.062	4438.557	3.771	90.902	0.326	1875.949	1.517	1194.403	1.516	0.037	0.015
	0.965	2000	2.166	0.077	2563.979	3.273	71.011	0.272	906.119	1.464	672.746	0.826	0.054	0.037
	0.990	3000	1.953	0.147	1862.997	3.209	52.759	0.290	387.751	0.863	637.816	1.567	0.232	0.166
	1.000	4000	1.071	0.107	1189.398	1.701	32.277	0.161	161.476	0.386	334.986	0.757	0.170	0.289
mi79-u7a	mass=	0.030	J=	0.000812848	+/-	0.000001912		tot.gas.age=			0.394	+/-	0.011	
MI79 u7a IXT-5	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.001	100	1.802	0.100	8.898	0.325	2.665	0.096	15.286	0.174	529.148	1.367	-0.332	2.827
	0.013	200	11.635	0.154	91.552	0.322	36.865	0.264	236.057	0.271	3407.880	2.431	-0.188	0.283
	0.041	300	10.327	0.083	212.948	0.419	81.743	0.476	581.897	0.792	3228.331	1.566	0.446	0.062
	0.092	400	10.332	0.108	453.411	1.713	133.369	0.486	1007.068	0.659	3336.021	2.780	0.412	0.047

	0.163	500	11.302	0.117	787.680	1.323	182.416	0.623	1433.127	0.827	3682.606	1.745	0.351	0.035
	0.251	600	12.612	0.067	1177.637	2.223	220.400	0.698	1776.937	1.729	4188.636	1.800	0.381	0.016
	0.385	800	18.612	0.210	2428.059	2.761	313.567	0.459	2682.276	2.008	6114.698	2.640	0.336	0.034
	0.510	1000	17.729	0.159	2945.984	2.295	277.922	0.462	2524.406	1.646	5830.306	2.834	0.343	0.027
	0.609	1200	13.346	0.082	2994.474	2.615	205.842	0.705	1973.116	1.165	4552.550	1.932	0.453	0.018
	0.707	1600	13.562	0.187	3978.360	2.914	207.302	0.471	1972.564	1.902	4644.034	2.159	0.473	0.041
	0.795	2000	12.767	0.188	3361.739	5.105	205.683	0.623	1769.380	1.604	4295.565	2.631	0.433	0.046
	0.939	3000	20.159	0.190	4947.565	4.495	359.091	0.785	2899.755	2.109	6843.245	1.664	0.448	0.028
	1.000	4000	10.194	0.128	2814.518	4.099	147.896	0.500	1220.702	0.634	3320.268	2.821	0.370	0.046
mi79-u5a	mass=	0.019	J=	0.000814575		+/-	0.000001669		tot.gas.age=			-0.016	+/-	0.016
MI79 U5a IXT-47	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.007	100	5.088	0.101	44.160	0.362	13.086	0.179	85.984	0.365	1485.047	1.592	-0.315	0.510
	0.054	200	10.888	0.099	246.940	1.404	75.548	0.173	559.373	0.892	3132.932	2.015	-0.222	0.077
	0.156	300	14.747	0.099	835.200	1.838	157.397	0.388	1231.488	1.052	4188.557	1.646	-0.202	0.035
	0.296	400	14.014	0.158	1560.723	1.715	208.336	0.553	1694.889	1.283	4044.000	2.443	-0.084	0.040
	0.448	500	11.013	0.129	2164.863	3.616	210.171	0.424	1831.771	1.015	3138.831	3.188	-0.093	0.031
	0.591	600	7.308	0.129	2541.157	1.609	170.044	0.773	1725.123	0.884	2164.609	1.618	0.004	0.033
	0.763	800	5.658	0.160	3903.292	3.938	134.407	0.596	2071.460	2.185	1710.875	1.509	0.028	0.034
	0.878	1000	2.541	0.092	3260.019	2.662	51.773	0.196	1394.480	1.073	769.840	1.163	0.020	0.029
	0.938	1200	1.139	0.125	2086.132	2.231	26.665	0.259	712.885	1.098	400.474	1.472	0.132	0.076
	0.973	1600	1.524	0.175	1936.447	3.856	32.211	0.216	424.165	0.577	456.512	1.254	0.021	0.179
	0.980	2000	0.721	0.101	994.481	3.198	14.128	0.178	91.137	0.287	310.882	0.721	1.576	0.482
	0.987	3000	0.646	0.104	1539.998	1.837	12.813	0.185	87.021	0.250	256.853	0.867	1.112	0.517
	1.000	4000	0.731	0.079	2337.668	3.778	21.759	0.234	150.848	0.462	272.585	1.107	0.551	0.229
mi79-t5a	mass=	0.021	J=	0.000820339		+/-	0.000001338		tot.gas.age=			0.025	+/-	0.021
MI79 T5a IXT-45	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.003	100	4.650	0.083	41.986	0.658	5.689	0.117	37.078	0.203	1395.580	1.751	0.854	0.980
	0.020	200	8.470	0.155	103.981	0.814	25.702	0.200	199.253	0.298	2460.714	2.045	-0.314	0.340
	0.057	300	8.386	0.177	215.014	1.069	51.902	0.236	428.741	0.736	2521.348	3.087	0.149	0.180
	0.111	400	9.389	0.100	367.347	1.392	76.350	0.377	635.852	0.388	2742.707	1.569	-0.074	0.069
	0.183	500	13.333	0.106	592.214	0.861	107.453	0.501	843.295	0.897	3851.593	2.302	-0.155	0.055
	0.270	600	12.163	0.151	864.903	1.516	139.168	0.401	1018.392	1.303	3582.564	1.618	-0.017	0.065
	0.412	800	18.101	0.254	1922.848	1.978	223.684	0.573	1670.209	1.267	5351.502	3.936	0.002	0.067
	0.564	1000	17.139	0.230	2790.445	4.560	226.455	0.656	1780.247	0.973	5135.747	5.149	0.059	0.057
	0.693	1200	13.427	0.164	3193.498	1.344	183.730	0.325	1507.705	1.259	3981.430	3.562	0.014	0.048
	0.808	1600	11.712	0.182	3702.794	1.798	166.646	0.428	1341.623	1.009	3511.392	2.182	0.056	0.059
	0.883	2000	8.586	0.169	2452.804	3.580	133.728	0.548	885.524	0.941	2598.997	4.195	0.103	0.084

	0.976	3000	7.187	0.085	2884.208	3.761	202.785	0.734	1092.080	1.952	2181.900	1.519	0.079	0.034
	1.000	4000	2.154	0.074	1003.621	1.342	57.045	0.326	277.077	0.311	687.944	1.654	0.274	0.117
mi79-u4a	mass=	0.015	J=	0.000815004		+/-	0.000001616			tot.gas.age=		0.082	+/-	0.020
MI79 U4a IXT-43	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.012	100	2.294	0.129	62.297	0.402	14.471	0.145	101.232	0.385	659.231	1.554	-0.269	0.553
	0.067	200	3.141	0.100	293.696	1.164	61.740	0.341	475.385	0.900	932.926	2.001	0.015	0.092
	0.164	300	3.241	0.111	634.650	1.283	99.989	0.479	829.463	1.017	950.506	1.270	-0.013	0.058
	0.286	400	3.544	0.105	1110.776	1.359	118.972	0.393	1047.558	1.357	1101.119	1.391	0.076	0.044
	0.418	500	3.291	0.119	1460.806	2.830	119.428	0.623	1131.362	1.136	971.251	0.869	-0.002	0.046
	0.546	600	2.623	0.092	1777.907	2.847	111.721	0.324	1099.217	1.215	867.882	1.445	0.124	0.037
	0.699	800	3.144	0.152	2782.779	3.416	133.417	0.520	1312.316	1.213	1073.326	1.279	0.162	0.050
	0.805	1000	2.268	0.096	2239.405	3.194	105.277	0.411	906.723	1.622	751.432	0.725	0.132	0.046
	0.861	1200	1.294	0.106	1224.176	2.894	68.242	0.419	478.599	0.504	403.642	1.246	0.066	0.096
	0.895	1600	1.274	0.091	794.844	1.712	48.511	0.394	290.951	0.541	368.401	0.927	-0.041	0.136
	0.921	2000	1.673	0.081	732.305	1.732	37.142	0.287	226.143	0.547	513.314	1.066	0.123	0.157
	0.971	3000	2.635	0.139	1454.754	3.011	67.331	0.341	423.501	0.733	857.328	1.171	0.273	0.143
	1.000	4000	1.397	0.071	922.151	1.693	42.553	0.230	250.284	0.754	429.206	1.021	0.096	0.124
mi79-t7a	mass=	0.018	J=	0.000819231		+/-	0.000001325			tot.gas.age=		0.076	+/-	0.018
MI79 T7a IXT-25	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.007	100	2.185	0.125	38.048	0.598	11.053	0.143	69.756	0.292	668.975	1.370	0.491	0.780
	0.050	200	5.838	0.159	213.082	0.826	61.012	0.261	418.871	0.814	1695.407	1.822	-0.104	0.166
	0.127	300	6.517	0.126	536.588	2.040	103.288	0.540	763.137	0.850	1960.814	1.860	0.068	0.072
	0.223	400	6.410	0.094	947.300	1.724	121.521	0.387	945.320	1.046	2088.280	2.409	0.303	0.043
	0.328	500	5.665	0.079	1361.225	2.253	123.695	0.479	1034.044	1.400	1675.031	1.853	0.001	0.033
	0.437	600	5.205	0.136	1754.356	3.748	119.945	0.419	1080.406	0.965	1486.249	1.490	-0.071	0.055
	0.576	800	6.072	0.139	2862.336	2.984	141.474	0.670	1368.254	1.177	1762.966	1.775	-0.034	0.044
	0.681	1000	4.679	0.106	2623.096	3.563	106.657	0.561	1033.280	1.670	1401.811	1.422	0.028	0.045
	0.749	1200	3.343	0.096	1930.270	1.544	73.680	0.357	672.829	1.020	1000.989	1.028	0.029	0.062
	0.819	1600	3.413	0.072	2097.793	2.333	81.290	0.257	694.400	1.027	1073.657	1.526	0.139	0.046
	0.885	2000	2.949	0.080	1917.514	2.254	77.231	0.347	648.843	1.137	937.128	0.988	0.149	0.054
	0.953	3000	3.302	0.116	2299.123	1.941	78.443	0.285	666.043	0.998	1107.752	2.393	0.293	0.076
	1.000	4000	2.611	0.095	1744.534	3.506	56.080	0.390	467.540	0.908	845.700	1.405	0.235	0.089
mi79-u6a	mass=	0.016	J=	0.000813570		+/-	0.000001806			tot.gas.age=		0.277	+/-	0.021
MI79 u6a COMP-5	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.011	100	3.164	0.112	59.226	0.405	12.453	0.188	124.443	0.442	965.428	0.895	0.360	0.389
	0.060	200	7.528	0.135	249.551	1.193	53.689	0.345	589.200	1.398	2284.499	1.376	0.150	0.099
	0.142	300	9.967	0.174	456.645	2.185	86.362	0.442	965.863	0.566	3032.240	1.583	0.132	0.078

	0.236	400	10.358	0.164	684.582	1.251	97.442	0.255	1107.737	1.677	3228.607	3.032	0.222	0.064
	0.332	500	9.941	0.166	917.057	1.727	98.035	0.463	1136.028	1.703	3113.955	2.706	0.228	0.063
	0.428	600	9.427	0.189	1155.390	2.316	95.441	0.543	1128.265	1.391	2963.942	1.801	0.232	0.073
	0.552	800	11.508	0.202	1992.877	3.226	122.688	0.452	1459.933	0.904	3674.854	1.956	0.276	0.060
	0.648	1000	8.320	0.158	1944.694	1.828	101.910	0.328	1139.433	1.721	2772.591	2.529	0.404	0.060
	0.715	1200	5.942	0.185	1485.142	2.576	78.906	0.317	788.318	0.432	1867.174	0.981	0.207	0.102
	0.843	1600	11.368	0.120	2344.110	3.621	166.008	0.536	1511.152	0.994	3693.361	2.151	0.325	0.034
	0.922	2000	6.952	0.112	1824.189	2.756	112.572	0.432	928.888	0.836	2282.302	2.645	0.360	0.052
	0.975	3000	4.620	0.154	1694.736	2.795	80.215	0.192	623.443	1.435	1532.336	1.425	0.394	0.107
	1.000	4000	2.144	0.113	954.012	1.900	38.668	0.252	299.990	0.699	728.428	0.910	0.463	0.164
mi79-t2a	mass=	0.024	J=	0.000822532		+/-	0.000001477		tot.gas.age=			-0.055	+/-	0.017
MI79 T2a IXT-7	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.004	100	5.799	0.134	76.982	0.814	8.890	0.122	55.995	0.304	1651.685	2.902	-1.643	1.057
	0.028	200	16.846	0.175	119.865	0.571	44.304	0.301	317.973	0.765	4911.966	2.210	-0.308	0.242
	0.088	300	19.600	0.146	284.193	1.524	97.788	0.318	799.892	0.773	5657.889	2.862	-0.249	0.080
	0.182	400	18.568	0.194	546.060	1.316	144.865	0.461	1241.542	0.607	5300.336	2.476	-0.223	0.069
	0.295	500	17.265	0.178	869.042	2.097	170.573	0.338	1500.752	1.840	4968.764	1.801	-0.131	0.052
	0.409	600	15.115	0.172	1166.141	1.334	165.445	0.503	1516.175	1.148	4385.331	2.580	-0.079	0.050
	0.564	800	17.163	0.171	2414.444	2.504	197.905	0.612	2059.181	1.954	5048.376	2.849	-0.017	0.037
	0.705	1000	13.802	0.173	3015.646	2.785	157.711	0.536	1878.751	1.546	4121.417	1.262	0.034	0.040
	0.809	1200	10.474	0.062	2843.551	4.006	105.961	0.387	1378.150	1.049	3079.611	1.720	-0.017	0.020
	0.897	1600	10.417	0.119	3306.700	3.050	87.717	0.277	1181.479	1.290	3175.497	1.817	0.122	0.044
	0.944	2000	10.166	0.134	2282.450	2.156	51.725	0.414	626.424	0.669	2979.563	1.719	-0.058	0.094
	0.974	3000	14.974	0.088	2322.919	2.822	44.147	0.242	389.962	0.619	4423.960	2.400	-0.004	0.100
	1.000	4000	12.143	0.092	2285.055	3.689	43.919	0.136	347.975	0.681	3685.634	1.697	0.415	0.116
mi79-t3a	mass=	0.019	J=	0.000821440		+/-	0.000001391		tot.gas.age=			0.053	+/-	0.015
MI79 T3a IXT-27	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.006	100	18.308	0.100	28.669	0.524	11.607	0.133	67.618	0.244	5505.502	1.219	2.094	0.649
	0.042	200	5.762	0.108	143.578	0.975	48.614	0.200	408.207	0.926	1788.715	2.310	0.313	0.116
	0.115	300	2.273	0.113	354.733	0.967	94.438	0.514	821.365	0.790	637.127	1.855	-0.063	0.060
	0.216	400	1.544	0.095	684.433	1.600	130.909	0.375	1146.292	2.067	434.816	0.948	-0.028	0.036
	0.334	500	1.666	0.069	1079.835	1.923	151.774	0.345	1323.995	1.096	478.714	1.025	-0.015	0.023
	0.456	600	1.725	0.138	1476.517	2.272	157.463	0.407	1376.841	1.617	509.170	0.894	-0.001	0.044
	0.624	800	2.151	0.138	2798.260	3.543	220.513	0.441	1904.421	1.864	693.042	1.168	0.045	0.032
	0.773	1000	1.885	0.080	3183.166	3.569	207.371	0.621	1674.111	0.563	612.419	1.356	0.049	0.021
	0.877	1200	1.500	0.083	2741.411	2.758	149.363	0.525	1174.117	1.470	446.926	0.709	0.005	0.031
	0.947	1600	1.334	0.114	2362.377	2.299	103.969	0.339	795.088	1.269	376.913	0.950	-0.032	0.063

	0.978	2000	0.611	0.113	1295.439	1.726	44.605	0.209	349.961	0.941	246.752	0.899	0.281	0.141
	0.991	3000	0.685	0.132	874.884	0.996	16.995	0.207	145.729	0.519	257.835	1.219	0.564	0.396
	1.000	4000	0.304	0.090	644.092	0.681	11.426	0.141	100.247	0.311	159.986	1.042	1.037	0.391
mi87-a15a	mass=	0.005	J=	0.000856896		+/-	0.000002719			tot.gas.age=		0.262	+/-	0.029
MI87 a15a COMP-20	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.042	100	4.552	0.155	88.706	0.686	27.095	0.269	222.336	0.748	1389.995	1.469	0.313	0.318
	0.163	200	2.772	0.098	329.216	0.959	71.548	0.310	646.676	0.560	925.166	1.939	0.254	0.069
	0.319	300	2.434	0.110	652.562	1.536	88.316	0.393	832.273	1.381	791.410	0.968	0.134	0.061
	0.481	400	1.741	0.115	942.509	1.662	90.646	0.440	864.918	1.048	649.071	0.851	0.240	0.061
	0.639	500	1.359	0.084	1133.761	1.275	88.594	0.375	845.830	1.388	534.966	1.213	0.244	0.045
	0.767	600	1.012	0.062	1099.383	2.223	71.362	0.501	682.119	0.919	395.249	0.834	0.218	0.041
	0.883	800	1.213	0.066	1392.343	2.032	64.879	0.458	621.890	0.819	408.340	1.300	0.124	0.048
	0.944	1000	0.594	0.061	938.236	2.029	36.576	0.242	327.013	0.974	247.431	1.302	0.340	0.085
	0.971	1200	0.273	0.067	555.758	1.615	17.025	0.185	144.400	0.358	127.217	0.674	0.498	0.211
	0.983	1600	0.205	0.063	423.205	1.311	7.219	0.164	60.639	0.240	110.309	0.660	1.268	0.476
	0.986	2000	0.063	0.098	181.680	0.800	2.275	0.115	18.963	0.256	48.280	0.570	2.414	2.367
	0.992	3000	0.176	0.083	366.627	1.358	3.731	0.099	32.036	0.158	101.787	0.821	2.404	1.178
	1.000	4000	0.431	0.104	444.382	1.029	4.885	0.133	40.672	0.246	147.042	0.994	0.751	1.167
mi79-u2a	mass=	0.018	J=	0.000816000		+/-	0.000001506			tot.gas.age=		-0.071	+/-	0.034
MI79 u2a IXT-10	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.002	100	3.110	0.097	10.875	0.344	2.978	0.078	15.657	0.085	942.082	0.496	2.169	2.690
	0.026	200	26.057	0.215	100.513	0.671	34.624	0.266	202.374	0.230	7636.143	3.779	-0.464	0.463
	0.079	300	31.436	0.230	282.145	1.733	66.211	0.339	444.740	0.513	9276.143	4.767	-0.044	0.226
	0.150	400	27.929	0.157	460.739	1.481	81.617	0.168	597.603	0.982	8233.840	2.831	-0.047	0.115
	0.236	500	25.157	0.140	735.548	1.596	93.906	0.144	719.749	0.890	7358.104	2.175	-0.155	0.085
	0.323	600	19.758	0.116	920.002	1.850	90.965	0.124	732.020	0.865	5734.913	3.618	-0.208	0.069
	0.439	800	21.905	0.271	1639.783	3.267	116.900	0.394	972.547	1.962	6397.318	4.421	-0.114	0.121
	0.536	1000	17.097	0.154	1780.375	2.465	96.062	0.296	816.845	0.918	4988.491	1.822	-0.115	0.082
	0.616	1200	14.409	0.156	1676.459	2.734	82.860	0.343	674.057	0.926	4223.523	3.003	-0.075	0.101
	0.763	1600	31.814	0.167	2563.913	2.672	174.882	0.551	1230.379	1.143	9413.989	3.653	0.016	0.059
	0.875	2000	23.428	0.199	2160.348	4.414	141.699	0.327	939.328	1.357	7003.174	2.799	0.126	0.092
	0.961	3000	17.066	0.235	2070.886	2.528	110.086	0.331	724.207	1.040	5046.344	2.630	0.007	0.141
	1.000	4000	8.061	0.172	1341.348	1.743	46.864	0.271	329.070	0.647	2308.532	2.291	-0.329	0.228
mi87-a14a	mass=	0.006	J=	0.000848184		+/-	0.000004026			tot.gas.age=		0.597	+/-	0.030
MI87 a14a COMP-11	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.025	100	2.016	0.139	60.410	0.663	25.422	0.229	154.955	0.667	694.112	2.231	0.970	0.407
	0.085	200	0.925	0.104	134.706	0.894	57.175	0.512	372.197	1.049	390.008	1.496	0.479	0.126

	0.156	300	0.434	0.107	236.821	1.080	59.665	0.302	446.177	0.720	291.663	1.104	0.561	0.108
	0.237	400	0.164	0.115	367.235	1.221	56.006	0.420	502.724	0.440	290.195	0.631	0.735	0.103
	0.326	500	0.258	0.122	515.987	1.323	55.485	0.245	550.103	0.952	301.679	1.168	0.627	0.100
	0.418	600	0.474	0.080	648.932	1.315	55.405	0.282	571.261	1.067	329.892	0.599	0.508	0.063
	0.531	800	0.557	0.086	998.625	1.286	68.770	0.234	706.062	1.021	410.386	0.989	0.533	0.055
	0.618	1000	0.493	0.079	876.448	1.678	54.103	0.197	540.897	1.523	326.421	0.849	0.511	0.066
	0.670	1200	0.372	0.085	556.408	1.559	32.174	0.333	321.038	0.306	204.719	0.817	0.452	0.120
	0.720	1600	0.455	0.079	562.621	2.137	32.064	0.253	311.677	0.706	214.484	1.113	0.393	0.115
	0.776	2000	0.286	0.151	621.257	1.122	37.793	0.186	350.525	1.059	232.091	0.684	0.644	0.195
	0.877	3000	0.352	0.150	1280.043	0.815	66.159	0.509	624.434	0.726	385.086	1.043	0.689	0.108
	1.000	4000	0.456	0.148	1630.740	2.676	83.573	0.213	767.323	0.904	497.332	0.877	0.723	0.087
mi79-t8a	mass=	0.031	J=	0.000818395		+/-	0.000001341		tot.gas.age=			0.135	+/-	0.021
MI79 T8a IXT-6	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.000	100	15.287	0.161	4.034	0.407	4.054	0.096	6.173	0.100	4582.087	2.846	15.420	11.290
	0.007	200	42.778	0.187	50.459	0.663	28.113	0.243	103.428	0.406	12845.641	2.472	2.922	0.789
	0.025	300	21.631	0.177	133.158	0.485	49.055	0.232	266.939	0.525	6406.176	3.653	0.079	0.290
	0.054	400	15.795	0.144	283.419	0.562	69.746	0.356	435.614	0.444	4625.847	1.146	-0.141	0.145
	0.093	500	14.322	0.097	472.243	1.749	87.109	0.355	593.858	1.048	4241.898	2.520	0.024	0.071
	0.140	600	13.556	0.082	673.541	1.838	97.678	0.170	717.274	1.005	4092.273	2.290	0.178	0.050
	0.221	800	19.485	0.160	1556.376	3.268	148.661	0.603	1227.731	1.235	5835.507	2.174	0.094	0.057
	0.316	1000	21.109	0.204	2200.606	2.318	163.954	0.394	1422.919	1.123	6281.930	2.581	0.046	0.062
	0.409	1200	20.637	0.215	2499.272	3.075	162.112	0.446	1410.986	1.634	6232.187	3.453	0.140	0.066
	0.526	1600	28.553	0.191	3516.144	5.043	217.129	0.588	1770.869	1.535	8467.440	3.791	0.025	0.047
	0.648	2000	38.944	0.175	3442.352	3.077	276.768	0.696	1851.089	1.682	11726.934	5.010	0.175	0.041
	0.860	3000	81.963	0.281	5309.324	6.516	579.672	0.831	3204.907	2.037	24425.577	3.934	0.095	0.038
	1.000	4000	59.489	0.377	3745.667	2.293	415.107	0.585	2117.356	1.151	17916.391	5.905	0.235	0.078
mi79-s5a	mass=	0.020	J=	0.000827084		+/-	0.000002087		tot.gas.age=			0.117	+/-	0.055
MI79 S5a COMP-9	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.000	100	4.617	0.084	2.111	0.208	1.139	0.075	2.923	0.109	1377.096	1.102	6.503	12.570
	0.003	200	2.587	0.068	12.832	0.203	2.800	0.065	19.312	0.219	719.176	4.264	-3.506	1.601
	0.008	300	23.258	0.120	32.666	0.247	9.092	0.135	40.881	0.324	6843.199	2.853	-1.077	1.296
	0.016	400	1.502	0.090	59.129	0.350	7.298	0.103	62.738	0.444	443.646	1.195	-0.001	0.636
	0.027	500	1.782	0.077	93.512	0.424	9.445	0.142	85.140	0.334	516.617	1.095	-0.175	0.400
	0.040	600	1.715	0.090	125.885	0.423	11.387	0.152	101.410	0.374	540.567	1.006	0.499	0.390
	0.063	800	2.730	0.120	252.028	0.998	19.413	0.160	174.315	0.505	862.572	0.953	0.478	0.304
	0.091	1000	3.600	0.116	356.911	1.086	25.291	0.193	219.523	0.360	1108.151	1.399	0.302	0.233
	0.134	1200	18.447	0.131	581.336	0.995	40.932	0.310	337.165	0.837	5461.536	1.971	0.047	0.171

	0.279	1600	90.183	0.311	1987.774	1.934	138.995	0.396	1127.656	0.952	26764.357	8.985	0.152	0.122
	0.503	2000	176.821	0.629	3160.314	2.106	227.601	0.490	1744.801	1.307	52656.768	17.054	0.347	0.159
	0.800	3000	116.727	0.565	4296.104	2.333	285.643	0.725	2313.617	1.284	34244.271	8.414	-0.160	0.108
	1.000	4000	23.799	0.201	3069.536	1.143	183.379	0.647	1555.980	1.229	7299.666	2.423	0.256	0.057
mi79-u7a	mass=	0.030	J=	0.000812848		+/-	0.000001912		tot.gas.age=			0.394	+/-	0.011
MI79 u7a IXT-5	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.001	100	1.802	0.100	8.898	0.325	2.665	0.096	15.286	0.174	529.148	1.367	-0.332	2.827
	0.013	200	11.635	0.154	91.552	0.322	36.865	0.264	236.057	0.271	3407.880	2.431	-0.188	0.283
	0.041	300	10.327	0.083	212.948	0.419	81.743	0.476	581.897	0.792	3228.331	1.566	0.446	0.062
	0.092	400	10.332	0.108	453.411	1.713	133.369	0.486	1007.068	0.659	3336.021	2.780	0.412	0.047
	0.163	500	11.302	0.117	787.680	1.323	182.416	0.623	1433.127	0.827	3682.606	1.745	0.351	0.035
	0.251	600	12.612	0.067	1177.637	2.223	220.400	0.698	1776.937	1.729	4188.636	1.800	0.381	0.016
	0.385	800	18.612	0.210	2428.059	2.761	313.567	0.459	2682.276	2.008	6114.698	2.640	0.336	0.034
	0.510	1000	17.729	0.159	2945.984	2.295	277.922	0.462	2524.406	1.646	5830.306	2.834	0.343	0.027
	0.609	1200	13.346	0.082	2994.474	2.615	205.842	0.705	1973.116	1.165	4552.550	1.932	0.453	0.018
	0.707	1600	13.562	0.187	3978.360	2.914	207.302	0.471	1972.564	1.902	4644.034	2.159	0.473	0.041
	0.795	2000	12.767	0.188	3361.739	5.105	205.683	0.623	1769.380	1.604	4295.565	2.631	0.433	0.046
	0.939	3000	20.159	0.190	4947.565	4.495	359.091	0.785	2899.755	2.109	6843.245	1.664	0.448	0.028
	1.000	4000	10.194	0.128	2814.518	4.099	147.896	0.500	1220.702	0.634	3320.268	2.821	0.370	0.046
mi84-a55a	mass=	0.012	J=	0.000945565		+/-	0.000001753		tot.gas.age=			0.533	+/-	0.022
MI84 A55a IXT-44	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
basaltic andesite	0.004	100	21.080	0.214	30.292	0.347	9.593	0.186	40.744	0.191	6286.510	2.285	2.398	2.642
	0.028	200	47.552	0.269	289.146	1.013	17.174	0.321	278.178	1.207	14174.518	2.924	0.753	0.488
	0.069	300	6.264	0.128	806.446	1.027	15.844	0.263	478.285	1.035	1993.878	1.552	0.509	0.135
	0.134	400	1.562	0.109	1377.326	2.051	28.190	0.235	752.855	1.051	715.327	1.116	0.575	0.073
	0.220	500	0.483	0.080	1815.648	2.077	38.231	0.348	996.835	1.109	484.865	0.939	0.585	0.040
	0.325	600	0.925	0.111	2036.257	1.141	46.503	0.301	1216.287	1.263	607.099	1.176	0.468	0.046
	0.491	800	0.930	0.124	2834.969	1.259	68.661	0.289	1926.352	1.958	797.154	1.159	0.463	0.032
	0.640	1000	0.590	0.114	2395.253	2.367	64.462	0.208	1724.052	1.994	725.842	0.965	0.546	0.033
	0.741	1200	0.751	0.102	1715.091	2.053	53.146	0.231	1176.111	1.702	574.511	1.219	0.511	0.044
	0.816	1600	1.011	0.115	1453.413	1.087	52.179	0.316	864.439	0.634	600.866	0.824	0.596	0.067
	0.868	2000	1.416	0.126	1224.033	1.787	55.124	0.334	606.390	0.707	589.943	1.274	0.482	0.105
	0.949	3000	2.252	0.102	2669.035	1.683	101.564	0.396	934.136	1.030	952.017	1.334	0.523	0.055
	1.000	4000	1.600	0.093	1782.532	1.972	65.995	0.371	591.986	1.245	650.871	1.748	0.513	0.080
mi87-a11a	mass=	0.0056	J=	0.000796943		+/-	0.000059852		tot.gas.age=			0.479	+/-	0.049
MI87 a11a COMP-32	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.054	100	32.433	0.307	55.690	0.559	27.610	0.375	467.990	1.475	9541.814	6.396	-0.130	0.279

	0.256	200	47.036	0.298	238.369	0.809	81.259	0.481	1757.231	2.053	14271.520	5.315	0.305	0.072
	0.502	300	45.467	0.364	454.363	0.847	92.553	0.602	2147.851	1.774	14022.929	1.825	0.393	0.072
	0.688	400	32.632	0.180	650.075	1.415	65.505	0.347	1616.973	2.036	10167.591	5.042	0.467	0.047
	0.813	500	20.798	0.163	778.582	0.826	41.376	0.267	1081.080	1.020	6597.479	3.515	0.601	0.064
	0.889	600	12.640	0.107	784.200	1.135	24.003	0.343	662.693	1.227	4107.886	1.255	0.809	0.069
	0.940	800	9.065	0.144	942.362	1.671	15.637	0.218	445.477	1.107	2870.311	2.504	0.618	0.137
	0.962	1000	5.107	0.092	707.104	1.162	7.691	0.154	191.459	0.592	1661.271	1.422	1.143	0.205
	0.972	1200	3.425	0.104	476.759	1.259	4.511	0.080	87.967	0.451	1093.223	1.562	1.328	0.501
	0.978	1600	3.655	0.105	432.615	0.826	5.176	0.135	56.231	0.257	1092.712	1.648	0.323	0.796
	0.985	2000	3.169	0.135	374.849	1.137	4.938	0.143	58.405	0.311	1014.509	1.138	1.919	0.982
	0.994	3000	3.452	0.114	658.618	1.251	5.458	0.138	79.383	0.259	1073.253	1.597	0.964	0.613
	1.000	4000	1.640	0.097	337.778	1.023	3.142	0.084	50.070	0.342	549.079	1.034	1.853	0.822
mi87-a6a	mass=	0.0050	J=		0.000853864	+/-	0.000003085		tot.gas.age=			0.218	+/-	0.026
MI87 a6a COMP-12	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.032	100	4.851	0.093	51.731	0.510	32.534	0.296	158.500	0.271	1403.406	2.694	-0.293	0.269
	0.130	200	1.530	0.059	216.125	1.101	91.372	0.438	492.318	0.803	521.795	1.528	0.218	0.055
	0.275	300	0.860	0.088	418.716	0.431	126.578	0.439	726.268	1.097	359.603	1.282	0.224	0.055
	0.437	400	0.872	0.107	590.355	0.629	132.400	0.372	810.467	1.158	358.313	1.013	0.191	0.060
	0.585	500	0.631	0.077	700.258	1.487	112.765	0.378	739.100	1.279	304.955	1.062	0.247	0.048
	0.701	600	0.498	0.053	712.535	1.414	82.950	0.339	580.784	1.197	245.247	1.252	0.260	0.041
	0.807	800	0.519	0.055	892.306	1.218	68.598	0.340	531.393	0.912	260.715	1.042	0.311	0.047
	0.872	1000	0.406	0.061	681.785	1.786	39.936	0.229	324.419	0.655	186.718	0.889	0.317	0.086
	0.907	1200	0.319	0.083	443.239	1.197	21.816	0.321	176.287	0.385	128.173	0.751	0.296	0.213
	0.930	1600	0.429	0.048	388.140	0.931	15.636	0.137	116.576	0.636	149.601	0.626	0.301	0.187
	0.943	2000	0.239	0.073	255.436	1.065	9.769	0.160	61.543	0.302	78.112	0.831	0.185	0.537
	0.969	3000	0.486	0.066	634.533	1.293	23.905	0.198	133.754	0.486	163.134	1.023	0.224	0.226
	1.000	4000	0.962	0.113	693.048	1.884	25.771	0.184	153.222	0.426	272.630	0.888	-0.117	0.336
mi79-u3a	mass=	0.0198	J=		0.000815432	+/-	0.000001566		tot.gas.age=			0.019	+/-	0.012
MI79 U3a IXT-15	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.001	100	6.394	0.113	3.997	0.590	5.578	0.144	22.050	0.351	1793.442	1.275	-6.407	2.231
	0.021	200	7.451	0.109	117.714	1.140	37.067	0.302	284.612	0.914	2154.322	1.593	-0.246	0.166
	0.063	300	2.524	0.148	260.187	0.959	72.986	0.324	632.570	1.242	742.803	0.879	-0.007	0.101
	0.124	400	1.657	0.118	435.607	1.449	98.702	0.274	899.322	1.252	459.839	1.236	-0.049	0.057
	0.196	500	0.923	0.099	707.571	1.425	111.357	0.412	1076.350	1.163	281.432	1.027	0.012	0.040
	0.275	600	0.595	0.088	1000.056	2.066	116.299	0.427	1177.567	1.146	213.141	1.338	0.047	0.033
	0.397	800	0.927	0.109	2009.277	2.526	183.248	0.627	1813.476	1.687	330.775	1.347	0.046	0.026
	0.531	1000	0.650	0.061	2436.299	2.633	206.661	0.498	1976.896	1.643	253.941	1.079	0.046	0.013

	0.639	1200	0.554	0.115	2328.641	3.811	168.464	0.386	1614.302	1.215	223.737	1.144	0.055	0.031
	0.742	1600	2.274	0.110	2482.517	3.108	161.240	0.377	1528.628	1.437	757.028	0.993	0.082	0.031
	0.874	2000	1.647	0.126	2482.358	3.162	214.317	0.569	1954.053	1.382	564.181	0.856	0.058	0.028
	0.950	3000	1.488	0.124	1823.535	3.351	121.984	0.277	1129.950	1.231	460.422	1.006	0.027	0.048
	1.000	4000	1.472	0.094	1252.387	2.582	80.591	0.240	749.038	0.605	392.961	0.791	-0.082	0.054
mi79-s9a	mass=	0.0216	J=		0.000824960		+/-		0.000001764		tot.gas.age=		0.658	+/-	0.030
MI79 S9a IXT-38	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.000	100	3.637	0.114	4.456	0.302	1.992	0.085	3.648	0.199	1089.479	0.956	6.035	13.652
	0.006	200	33.193	0.272	43.168	0.319	16.282	0.269	44.363	0.258	9889.406	4.621	2.714	2.698
	0.023	300	53.887	0.192	127.436	0.538	22.685	0.152	121.800	0.418	16159.630	7.303	2.883	0.699
	0.051	400	37.534	0.153	297.664	0.969	19.792	0.154	212.729	0.621	11195.951	4.061	0.733	0.318
	0.091	500	10.553	0.089	485.338	1.173	17.494	0.189	302.335	0.648	3289.680	2.461	0.843	0.131
	0.148	600	3.050	0.086	687.920	1.354	22.145	0.203	428.110	0.579	1094.599	2.222	0.672	0.088
	0.257	800	2.145	0.080	1362.541	1.883	39.359	0.199	815.611	0.946	990.972	1.195	0.652	0.043
	0.382	1000	1.630	0.138	1602.145	3.270	44.509	0.296	932.766	1.402	878.723	1.298	0.633	0.065
	0.502	1200	1.793	0.090	1572.477	3.143	45.683	0.101	906.418	0.916	879.227	1.182	0.574	0.043
	0.665	1600	2.872	0.102	2035.315	2.805	81.686	0.264	1217.284	0.875	1348.637	1.222	0.611	0.037
	0.806	2000	3.570	0.067	1584.080	1.745	104.189	0.316	1058.220	0.908	1486.455	1.398	0.607	0.028
	0.922	3000	6.052	0.124	1484.758	2.561	124.119	0.496	868.181	1.127	2118.383	1.996	0.566	0.063
	1.000	4000	5.867	0.168	954.290	1.772	103.554	0.467	588.555	0.887	1885.276	1.624	0.383	0.126
mi79-t4b	mass=	0.0217	J=		0.000821576		+/-		0.000001400		tot.gas.age=		0.015	+/-	0.018
MI79 T4a IXT-14	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.003	100	9.537	0.127	24.722	0.966	8.782	0.101	61.144	0.261	2781.856	1.510	-0.880	0.913
	0.020	200	24.299	0.155	101.475	1.277	38.748	0.211	299.925	0.638	7315.334	2.974	0.666	0.227
	0.056	300	27.225	0.203	210.585	1.610	73.694	0.291	619.448	0.612	7900.897	4.516	-0.345	0.144
	0.108	400	28.594	0.219	369.192	2.818	107.698	0.481	921.770	0.547	8218.223	3.416	-0.372	0.104
	0.175	500	30.716	0.136	580.995	3.090	134.929	0.520	1179.243	1.538	8916.616	2.841	-0.201	0.051
	0.252	600	32.669	0.174	822.600	1.803	151.282	0.458	1359.149	1.797	9572.631	4.460	-0.088	0.056
	0.370	800	45.611	0.190	1675.297	5.103	224.126	0.375	2087.504	2.205	13578.824	7.510	0.072	0.040
	0.503	1000	48.049	0.320	2290.194	6.502	244.102	0.729	2341.399	1.805	14295.046	2.590	0.061	0.060
	0.635	1200	45.866	0.220	2638.740	2.706	242.458	0.527	2326.790	1.876	13602.788	3.856	0.031	0.041
	0.791	1600	52.508	0.177	3753.844	11.835	285.225	0.411	2745.253	1.128	15539.287	3.381	0.013	0.028
	0.905	2000	45.079	0.248	3175.056	5.018	215.847	0.458	2011.872	0.684	13477.483	4.261	0.115	0.054
	0.975	3000	33.436	0.212	2568.662	6.909	135.234	0.343	1237.687	1.291	10045.728	3.659	0.198	0.075
	1.000	4000	11.302	0.130	1089.209	3.062	47.227	0.253	443.437	0.858	3440.683	1.378	0.338	0.129
mi87-a13a	mass=	0.0062	J=		0.000847974		+/-		0.000011910		tot.gas.age=		0.366	+/-	0.042
MI87 a13a COMP-47	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr

andesite	0.022	100	9.390	0.120	66.338	0.508	21.506	0.301	117.971	0.532	2748.604	2.955	-0.338	0.463
	0.089	200	4.985	0.151	257.105	0.967	50.922	0.363	352.633	0.875	1541.471	1.856	0.297	0.193
	0.198	300	3.846	0.129	522.514	1.089	74.855	0.215	576.890	1.210	1299.120	1.321	0.431	0.101
	0.329	400	3.857	0.083	749.176	1.943	77.533	0.429	687.048	1.246	1297.172	1.925	0.351	0.055
	0.448	500	3.141	0.104	883.839	1.052	62.819	0.353	630.057	0.786	1077.558	1.950	0.363	0.075
	0.540	600	2.548	0.086	875.504	1.428	43.858	0.370	487.924	0.904	904.464	1.249	0.475	0.079
	0.632	800	2.583	0.074	1142.127	1.803	40.580	0.254	482.343	0.505	964.303	1.338	0.637	0.070
	0.695	1000	2.703	0.103	890.789	1.944	32.994	0.173	336.069	0.658	959.954	1.139	0.734	0.138
	0.743	1200	3.976	0.060	649.273	1.037	30.943	0.195	251.670	0.913	1217.025	1.805	0.256	0.109
	0.820	1600	10.040	0.164	906.852	0.666	68.147	0.220	406.489	0.872	3054.641	3.165	0.330	0.183
	0.887	2000	14.497	0.185	716.930	2.203	61.357	0.254	354.475	1.121	4269.129	1.831	-0.064	0.235
	0.970	3000	20.173	0.234	1048.806	2.072	77.595	0.407	437.607	0.852	6036.020	2.708	0.261	0.242
	1.000	4000	7.604	0.159	408.745	1.449	29.218	0.303	158.855	0.482	2296.055	3.007	0.473	0.453
mi87-a9a	mass=	0.0055	J=	0.000751343		+/-	0.000011445		tot.gas.age=			0.588	+/-	0.066
MI87 a9a COMP-23	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.060	100	255.944	0.742	91.389	0.933	91.989	0.323	424.702	1.103	75732.269	20.428	0.321	0.703
	0.204	200	73.603	0.268	309.902	0.981	117.923	0.453	1022.584	1.395	22118.234	6.934	0.489	0.105
	0.371	300	44.806	0.223	536.448	0.910	132.412	0.567	1183.175	1.514	13610.674	4.155	0.424	0.075
	0.522	400	43.742	0.214	655.478	1.165	122.121	0.414	1073.445	1.249	13275.293	2.748	0.441	0.080
	0.647	500	46.223	0.221	741.997	2.187	101.791	0.152	881.581	1.318	13936.038	5.602	0.426	0.101
	0.740	600	46.178	0.254	718.884	1.201	77.073	0.337	657.092	1.204	13710.616	3.591	0.134	0.155
	0.813	800	65.621	0.276	778.127	2.181	66.818	0.291	523.126	0.304	19401.346	6.713	0.027	0.212
	0.864	1000	66.821	0.202	587.024	1.086	52.823	0.160	357.044	0.612	19868.307	4.939	0.465	0.227
	0.903	1200	68.349	0.198	480.144	0.740	46.231	0.260	279.046	1.015	20410.855	4.300	1.037	0.285
	0.949	1600	62.825	0.447	837.365	1.781	53.675	0.278	324.757	1.003	19197.835	6.927	2.640	0.551
	0.966	2000	34.345	0.241	375.060	1.199	22.394	0.231	120.134	0.603	10460.764	3.310	3.515	0.804
	0.979	3000	24.404	0.251	327.058	0.401	16.576	0.170	90.871	0.427	7313.085	5.011	1.517	1.106
	1.000	4000	10.251	0.146	498.453	1.108	20.443	0.198	151.466	0.537	3180.194	2.483	1.351	0.386
mi79-t9a	mass=	0.0158	J=	0.000818115		+/-	0.000001352		tot.gas.age=			0.692	+/-	0.012
MI79 T9a COMP-4	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.008	100	11.738	0.152	75.632	0.820	14.275	0.183	149.308	0.317	3446.957	1.869	-0.213	0.445
	0.052	200	22.813	0.192	185.077	1.280	59.208	0.265	765.017	1.404	6982.964	2.234	0.466	0.110
	0.140	300	23.217	0.110	375.059	1.322	108.422	0.450	1560.702	1.123	7525.937	2.016	0.629	0.031
	0.262	400	23.688	0.089	667.218	1.654	142.761	0.386	2146.224	1.482	7891.519	3.246	0.613	0.018
	0.395	500	22.208	0.170	969.233	1.208	154.010	0.217	2342.065	2.258	7573.631	3.448	0.637	0.032
	0.524	600	19.597	0.194	1302.670	1.527	152.360	0.643	2273.026	1.521	6932.834	3.932	0.741	0.037
	0.682	800	23.422	0.093	2514.332	4.297	192.480	0.531	2777.105	2.171	8280.879	1.585	0.723	0.015

	0.812	1000	19.634	0.143	2989.620	3.427	168.224	0.545	2287.901	2.140	6970.696	5.249	0.754	0.027
	0.897	1200	13.876	0.105	2597.733	4.106	117.033	0.272	1503.406	1.900	4899.080	1.885	0.784	0.030
	0.963	1600	15.402	0.108	2559.126	2.357	104.151	0.270	1170.644	1.937	5191.063	4.016	0.806	0.041
	0.992	2000	7.039	0.148	1272.840	1.129	55.384	0.272	511.580	0.855	2333.723	1.108	0.731	0.126
	0.999	3000	3.807	0.068	545.355	1.530	15.990	0.139	111.331	0.326	1169.137	1.557	0.586	0.267
	1.000	4000	1.970	0.079	137.836	0.764	3.545	0.091	22.625	0.135	655.729	1.461	4.792	1.513
mi87-a10a	mass=	0.0063	J=	0.000824734		+/-	0.000002859		tot.gas.age=			0.472	+/-	0.026
MI87 a10a COMP-28	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.008	100	6.970	0.088	63.028	0.530	7.417	0.157	53.298	0.223	2007.174	2.347	-1.464	0.733
	0.028	200	1.616	0.085	230.290	0.651	5.600	0.154	126.334	0.226	476.209	1.021	-0.017	0.295
	0.066	300	0.335	0.122	464.249	1.222	7.114	0.170	237.007	0.708	264.225	1.266	1.036	0.227
	0.110	400	0.342	0.143	659.449	1.289	7.597	0.181	277.811	0.524	240.743	1.317	0.748	0.226
	0.150	500	0.198	0.130	704.761	0.982	6.744	0.146	250.107	0.356	199.555	1.020	0.839	0.229
	0.183	600	0.303	0.093	624.350	1.368	6.983	0.204	211.944	0.416	171.015	0.760	0.572	0.193
	0.234	800	0.519	0.048	743.756	1.239	18.575	0.233	321.974	0.945	269.422	0.897	0.536	0.065
	0.333	1000	1.392	0.058	731.528	1.144	57.258	0.312	622.401	0.501	589.242	1.517	0.425	0.041
	0.511	1200	3.412	0.127	907.021	1.874	119.194	0.497	1122.190	1.241	1340.774	1.503	0.441	0.050
	0.794	1600	6.233	0.121	1799.074	2.607	201.948	0.537	1785.932	1.615	2414.703	2.340	0.477	0.030
	0.908	2000	3.044	0.085	1230.180	2.807	84.256	0.320	722.283	1.028	1090.059	2.291	0.393	0.052
	0.964	3000	1.992	0.087	1007.154	1.681	38.591	0.348	355.528	0.739	668.798	1.716	0.335	0.108
	1.000	4000	1.560	0.127	689.774	1.132	23.794	0.186	224.066	0.583	517.984	2.129	0.378	0.250
mi87-a1a	mass=	0.0070	J=	0.000774208		+/-	0.000079904		tot.gas.age=			0.170	+/-	0.027
MI87 a1a IXT-53	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.028	100	17.328	0.184	58.932	0.414	25.268	0.315	286.885	0.785	5146.962	3.588	0.129	0.265
	0.141	200	16.892	0.214	244.522	0.967	73.140	0.218	1166.093	1.428	5073.676	5.086	0.098	0.076
	0.329	300	20.004	0.213	546.457	1.284	115.234	0.359	1932.928	1.093	6034.600	3.414	0.089	0.045
	0.538	400	19.746	0.184	832.487	1.913	129.989	0.457	2147.678	2.154	6026.616	4.423	0.125	0.035
	0.723	500	15.764	0.213	1068.763	1.905	114.944	0.507	1898.142	1.430	4886.906	3.582	0.168	0.046
	0.855	600	9.975	0.134	1116.880	1.768	83.476	0.434	1360.501	1.883	3229.426	3.421	0.289	0.041
	0.947	800	6.337	0.105	1306.289	1.610	60.021	0.289	947.407	1.209	2087.702	1.915	0.317	0.046
	0.975	1000	1.986	0.117	798.879	1.791	23.096	0.249	292.244	0.775	634.704	1.068	0.228	0.165
	0.983	1200	0.585	0.074	418.601	1.517	12.049	0.142	83.456	0.396	227.007	1.141	0.905	0.367
	0.988	1600	0.660	0.086	291.738	1.011	11.483	0.160	42.539	0.268	214.465	1.326	0.637	0.840
	0.991	2000	0.398	0.059	231.856	1.038	11.184	0.152	36.901	0.237	129.844	1.125	0.463	0.661
	0.996	3000	0.707	0.052	282.896	1.143	16.145	0.183	51.502	0.276	184.059	1.211	-0.676	0.415
	1.000	4000	0.861	0.065	240.730	0.577	11.781	0.168	39.082	0.393	251.071	1.539	-0.118	0.689
mi87-a12a	mass=	0.0072	J=	0.000836430		+/-	0.000001939		tot.gas.age=			1.020	+/-	0.031

MI87 a12a COMP-39	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.007	100	49.769	0.256	15.668	0.376	10.410	0.163	50.615	0.286	14736.193	5.602	0.877	2.261
	0.040	200	17.130	0.204	93.522	0.515	6.106	0.161	243.092	0.706	5114.231	4.710	0.325	0.376
	0.079	300	3.017	0.124	195.326	1.244	3.419	0.113	289.754	0.672	1000.616	1.602	0.567	0.191
	0.142	400	0.914	0.100	331.108	1.447	3.653	0.137	463.404	0.813	504.042	1.254	0.761	0.096
	0.228	500	0.368	0.087	445.316	1.153	3.811	0.127	641.548	0.992	491.575	1.732	0.900	0.060
	0.333	600	0.503	0.142	527.778	0.972	4.375	0.197	772.001	1.210	546.324	1.364	0.777	0.082
	0.503	800	0.410	0.148	879.130	1.405	5.052	0.148	1254.524	1.277	813.877	1.610	0.833	0.053
	0.662	1000	0.298	0.126	916.654	2.554	5.081	0.168	1176.337	1.317	743.186	1.240	0.840	0.048
	0.777	1200	0.430	0.140	783.328	1.789	5.211	0.220	848.906	1.091	562.251	0.884	0.773	0.074
	0.867	1600	0.632	0.136	805.361	1.682	6.041	0.143	664.979	1.327	527.683	1.142	0.773	0.091
	0.916	2000	0.565	0.096	582.090	0.862	5.398	0.165	361.238	0.830	479.829	1.169	1.307	0.118
	0.970	3000	2.062	0.088	808.629	1.859	11.583	0.092	400.565	0.571	1065.382	1.546	1.717	0.098
	1.000	4000	2.036	0.127	551.827	0.835	7.531	0.118	222.807	0.429	1500.672	2.022	6.079	0.253
mi87-a18a	mass=	0.0048	J=	0.000831045		+/-	0.000002340			tot.gas.age=		0.686	+/-	0.162
MI87 a18a COMP-39	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
hornblende	0.018	200	12.263	0.146	159.666	5.942	4.200	2.434	17.484	0.219	3611.959	2.807	-1.010	3.702
	0.055	400	1.049	0.110	325.530	6.030	1.925	2.433	36.423	0.239	281.968	0.506	-1.157	1.334
	0.084	600	0.377	0.093	240.078	5.953	2.200	2.432	28.306	0.180	136.793	0.775	1.343	1.460
	0.114	800	0.483	0.113	226.410	5.955	3.604	2.433	28.553	0.196	141.695	0.786	-0.061	1.756
	0.141	900	0.424	0.104	231.117	5.923	5.943	2.434	26.374	0.242	132.478	0.659	0.408	1.755
	0.188	1000	0.485	0.062	479.303	1.525	10.918	0.103	46.589	0.325	177.520	0.505	1.104	0.588
	0.302	1100	1.079	0.118	1285.299	1.548	28.413	0.251	110.392	0.419	385.027	1.061	0.898	0.473
	0.414	1200	0.754	0.084	1306.876	1.705	29.650	0.173	109.782	0.363	279.752	0.677	0.778	0.339
	0.497	1250	0.591	0.066	1028.517	1.365	21.484	0.168	80.271	0.340	198.635	0.853	0.449	0.365
	0.562	1300	0.420	0.090	867.418	0.969	17.888	0.316	64.004	0.133	135.852	0.581	0.278	0.621
	0.618	1350	0.192	0.061	740.608	1.153	14.733	0.201	54.054	0.282	108.571	0.555	1.434	0.501
	0.654	1400	0.359	0.071	504.308	1.331	9.412	0.152	35.232	0.232	92.231	0.552	-0.588	0.889
	0.676	1450	0.115	0.061	308.603	1.120	5.939	0.126	21.642	0.087	50.135	0.710	1.124	1.253
	0.697	1500	0.310	0.065	341.396	1.229	5.596	0.152	20.618	0.213	67.283	0.698	-1.762	1.389
	0.810	2000	1.492	0.048	1835.232	1.990	27.452	0.268	109.619	0.434	507.540	1.137	0.910	0.196
	0.949	3000	2.055	0.056	2312.897	2.701	32.719	0.293	136.237	0.336	749.362	1.519	1.563	0.184
	1.000	4000	0.911	0.043	1013.133	1.470	11.458	0.161	49.399	0.280	291.741	0.591	0.681	0.387
mi79-u1a	mass=	0.0203	J=	0.000816567		+/-	0.000001453			tot.gas.age=		-0.038	+/-	0.015
MI79 U1a IXT-11	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.000	100	0.165	0.085	0.112	0.304	0.235	0.116	1.767	0.138	59.827	0.497	9.214	20.956
	0.003	200	0.826	0.106	3.785	0.327	1.340	0.079	22.106	0.211	199.705	0.748	-2.956	2.091

	0.008	300	0.826	0.088	10.257	0.531	2.909	0.070	55.658	0.299	221.171	0.967	-0.603	0.686
	0.018	400	0.606	0.072	22.434	0.457	4.386	0.123	85.780	0.357	226.103	0.792	0.805	0.368
	0.029	500	0.743	0.081	37.020	0.536	5.345	0.133	111.036	0.339	229.094	0.866	0.128	0.319
	0.044	600	0.618	0.075	56.172	0.434	6.001	0.167	137.362	0.456	200.328	0.833	0.189	0.239
	0.069	800	0.779	0.091	116.488	0.668	9.259	0.178	236.974	0.797	258.438	0.860	0.175	0.168
	0.102	1000	0.718	0.080	175.843	0.883	11.538	0.129	311.633	0.479	196.355	0.650	-0.075	0.111
	0.141	1200	0.543	0.096	226.082	0.964	13.047	0.135	369.112	0.422	140.053	0.639	-0.082	0.113
	0.201	1600	0.683	0.115	375.373	1.359	21.162	0.255	558.507	0.597	167.664	0.788	-0.090	0.089
	0.272	2000	0.923	0.085	474.111	1.703	30.961	0.216	670.042	0.820	179.488	0.563	-0.205	0.055
	0.641	3000	2.026	0.104	2369.064	2.294	166.468	0.579	3475.401	2.014	523.541	2.126	-0.032	0.013
	1.000	4000	0.676	0.078	2192.845	3.669	172.477	0.574	3381.196	2.727	152.069	0.808	-0.021	0.010
mi87-a8a	mass=	0.0088	J=		0.000741064		+/-		0.000108369		tot.gas.age=		0.619	+/-	0.091
MI87 a8a COMP-22	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
andesite	0.028	100	34.077	0.218	78.293	0.443	40.405	0.269	521.843	0.860	10074.063	7.220	0.011	0.166
	0.124	200	10.559	0.187	266.030	0.657	111.710	0.637	1764.334	1.646	3941.225	3.375	0.622	0.042
	0.273	300	1.985	0.082	561.302	1.158	168.082	0.614	2755.640	2.307	1849.509	2.275	0.613	0.012
	0.437	400	1.129	0.122	834.645	1.721	185.002	0.595	3037.420	1.910	1803.642	2.435	0.647	0.016
	0.593	500	1.847	0.105	1115.234	1.171	174.173	0.707	2879.462	2.653	1898.284	2.992	0.628	0.014
	0.723	600	2.982	0.122	1281.114	2.506	144.939	0.785	2400.953	1.706	1979.145	2.487	0.611	0.020
	0.838	800	3.281	0.142	1583.521	2.574	128.703	0.457	2127.751	1.691	1989.209	1.963	0.640	0.026
	0.898	1000	2.363	0.086	1087.195	0.957	68.656	0.450	1105.312	1.037	1171.155	1.230	0.572	0.031
	0.921	1200	1.017	0.081	546.740	1.000	27.261	0.232	419.690	0.734	495.657	1.243	0.622	0.076
	0.952	1600	1.409	0.084	535.993	1.736	39.257	0.223	570.280	0.820	667.698	0.963	0.589	0.058
	0.973	2000	0.926	0.106	374.255	1.589	27.370	0.262	388.523	0.470	517.280	1.267	0.838	0.107
	0.990	3000	0.874	0.115	449.158	1.172	23.983	0.340	325.567	0.605	474.240	1.525	0.887	0.140
	1.000	4000	0.779	0.101	259.916	1.046	13.117	0.217	175.563	0.659	377.048	1.220	1.119	0.227
mi87-a17a	mass=	0.0048	J=		0.000790818		+/-		0.000006372		tot.gas.age=		0.493	+/-	0.035
MI87 a17a COMP-24	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
dacite	0.040	100	53.144	0.321	47.243	0.438	27.943	0.241	343.016	0.570	15633.417	4.548	-0.294	0.395
	0.148	200	27.060	0.251	131.748	0.765	46.950	0.166	929.496	1.191	8328.307	3.893	0.510	0.114
	0.280	300	20.443	0.194	234.114	1.009	54.203	0.187	1144.977	1.579	6458.669	2.930	0.520	0.071
	0.397	400	16.738	0.223	294.844	0.742	45.926	0.338	1008.778	1.278	5232.787	2.546	0.406	0.093
	0.494	500	14.467	0.186	334.642	1.192	38.700	0.198	831.644	1.144	4530.741	2.968	0.439	0.094
	0.569	600	12.275	0.150	337.534	1.053	29.419	0.239	653.554	1.320	3908.388	1.768	0.613	0.097
	0.648	800	14.171	0.169	461.405	1.433	30.835	0.360	675.903	1.246	4439.778	2.951	0.532	0.106
	0.716	1000	15.164	0.234	438.184	1.007	28.469	0.276	589.209	0.924	4587.102	2.154	0.257	0.168
	0.766	1200	13.901	0.115	360.357	0.787	22.958	0.209	433.290	0.603	4262.055	3.040	0.508	0.112

	0.859	1600	26.675	0.210	534.371	1.551	43.773	0.318	802.741	0.897	8278.792	4.347	0.704	0.111
	0.920	2000	11.699	0.141	376.749	1.106	27.937	0.228	525.147	0.596	3808.360	2.413	0.954	0.113
	0.963	3000	5.225	0.082	337.306	1.115	18.911	0.247	374.260	0.946	1689.839	2.307	0.556	0.092
	1.000	4000	6.552	0.133	250.556	1.266	15.329	0.154	315.063	0.596	2010.557	1.446	0.337	0.178
mi79-t0a	mass=	0.0199	J=	0.000823886		+/-	0.000001624		tot.gas.age=			0.045	+/-	0.013
MI79 T0a COMP-6	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
dacite	0.001	100	61.710	0.192	7.734	0.291	12.846	0.138	21.547	0.178	18490.238	6.052	17.510	3.910
	0.010	200	120.389	0.310	29.800	0.417	33.656	0.269	196.383	0.616	35583.465	6.625	0.064	0.695
	0.031	300	80.038	0.321	54.319	0.378	42.439	0.228	497.349	0.533	23798.416	7.430	0.440	0.285
	0.070	400	19.656	0.179	107.488	0.369	52.551	0.309	883.717	1.520	5701.214	3.447	-0.180	0.089
	0.127	500	13.207	0.142	185.548	0.993	75.991	0.290	1286.507	1.785	3881.518	2.773	-0.024	0.049
	0.199	600	8.206	0.154	281.220	1.413	95.815	0.651	1625.130	1.981	2489.454	2.473	0.059	0.042
	0.312	800	4.656	0.117	582.616	1.740	154.872	0.720	2571.408	1.834	1385.921	1.601	0.006	0.020
	0.444	1000	12.585	0.154	858.587	1.702	186.273	0.704	3007.392	2.011	3655.210	1.684	-0.031	0.022
	0.574	1200	7.264	0.123	1024.854	2.009	186.312	0.466	2953.166	2.215	2297.950	2.071	0.076	0.018
	0.721	1600	3.644	0.114	1645.094	1.725	214.476	0.574	3337.007	2.525	1187.847	1.478	0.049	0.015
	0.836	2000	4.024	0.066	2202.097	3.549	186.002	0.656	2606.536	1.450	1211.295	1.980	0.013	0.011
	0.943	3000	8.993	0.159	3152.887	2.848	204.838	0.442	2421.208	1.596	2750.377	1.255	0.057	0.029
	1.000	4000	9.112	0.160	1583.332	3.828	107.886	0.223	1304.023	0.816	2708.537	3.193	0.018	0.054
mi87-a7a	mass=	0.0078	J=	0.000850547		+/-	0.000003309		tot.gas.age=			0.051	+/-	0.012
MI87 a7a COMP-21	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
dacite	0.009	100	8.582	0.144	22.913	0.285	2.079	0.107	111.010	0.606	2448.989	1.536	-1.203	0.589
	0.058	200	8.089	0.083	150.953	0.649	6.044	0.134	605.153	0.575	2428.028	1.625	0.095	0.063
	0.111	300	0.703	0.090	225.359	0.540	4.461	0.197	651.977	0.823	243.136	0.936	0.083	0.062
	0.190	400	0.549	0.094	317.272	1.007	2.450	0.168	978.089	0.933	199.986	0.945	0.059	0.044
	0.303	500	0.394	0.104	422.556	0.656	1.832	0.193	1384.199	1.901	180.268	0.683	0.071	0.034
	0.437	600	0.461	0.054	523.098	1.110	1.804	0.152	1652.275	1.695	181.916	0.754	0.042	0.015
	0.639	800	0.585	0.092	896.976	1.329	3.247	0.234	2490.667	2.617	261.343	0.712	0.055	0.017
	0.789	1000	0.431	0.058	853.584	2.835	4.330	0.266	1851.318	2.113	201.886	1.082	0.062	0.014
	0.876	1200	0.473	0.108	633.817	1.624	3.592	0.242	1070.906	1.207	126.535	0.733	-0.019	0.046
	0.942	1600	0.386	0.074	601.118	0.993	5.501	0.222	808.903	0.840	146.134	0.451	0.061	0.041
	0.980	2000	0.421	0.077	450.474	1.409	5.768	0.244	467.335	0.721	174.171	0.903	0.164	0.075
	0.996	3000	0.540	0.091	362.118	1.023	6.127	0.213	195.915	0.590	178.390	0.622	0.148	0.210
	1.000	4000	0.558	0.112	319.962	1.148	9.945	0.144	54.839	0.372	191.850	1.017	0.756	0.926
mi87-a4a	mass=	0.0053	J=	0.000546721		+/-	0.000039044		tot.gas.age=			0.049	+/-	0.023
MI87 a4a IXT-66	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
dacite	0.026	100	12.986	0.177	11.893	0.292	13.761	0.171	253.009	0.852	3988.567	3.211	0.590	0.204

	0.138	200	45.385	0.329	69.103	0.433	46.834	0.449	1066.809	1.216	13151.510	5.129	-0.240	0.090
	0.305	300	60.543	0.357	167.624	1.052	64.545	0.235	1592.340	1.989	17898.706	7.240	0.005	0.065
	0.478	400	51.126	0.339	275.355	0.845	54.860	0.277	1653.885	1.787	15248.647	4.942	0.084	0.060
	0.635	500	35.044	0.277	375.656	1.347	38.825	0.297	1509.837	1.508	10521.654	3.795	0.109	0.053
	0.764	600	20.619	0.146	440.485	1.465	21.826	0.214	1233.237	1.590	6225.077	2.876	0.106	0.034
	0.888	800	10.576	0.138	660.445	1.771	12.105	0.219	1183.669	1.532	3320.289	2.616	0.163	0.034
	0.947	1000	2.319	0.096	482.562	0.825	3.588	0.123	563.950	0.754	761.367	1.681	0.133	0.049
	0.971	1200	0.826	0.106	253.204	1.082	1.515	0.091	229.812	0.581	252.798	1.074	0.037	0.135
	0.989	1600	1.804	0.125	203.575	0.944	2.967	0.085	169.106	0.782	502.507	1.441	-0.178	0.216
	0.997	2000	2.325	0.085	97.885	0.641	2.164	0.082	74.756	0.349	650.724	1.555	-0.481	0.332
	0.998	3000	1.176	0.068	44.134	0.322	3.423	0.101	16.063	0.186	331.855	1.534	-0.965	1.239
	1.000	4000	2.318	0.096	33.982	0.302	1.284	0.076	15.204	0.209	624.311	1.329	-3.946	1.841
mi87-a22a	mass=	0.0030	J=		0.000854099	+/-	0.000003102		tot.gas.age=			0.366	+/-	0.088
MI87 a22a IXT-56	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
dacite	0.019	100	374.632	0.738	12.555	0.349	80.867	0.438	93.951	0.528	#########	23.385	-0.411	3.598
	0.073	200	60.110	0.337	40.697	0.388	46.544	0.129	274.619	0.647	17561.944	5.613	-1.126	0.560
	0.154	300	9.809	0.132	72.348	0.489	61.082	0.301	407.312	1.007	3003.523	3.818	0.397	0.148
	0.259	400	18.365	0.189	107.405	0.454	88.215	0.309	530.305	1.337	5541.188	3.675	0.332	0.163
	0.368	500	12.179	0.182	124.986	0.878	94.211	0.267	551.901	1.073	3629.300	2.160	0.085	0.150
	0.466	600	11.130	0.154	128.500	0.496	85.486	0.306	493.852	0.655	3502.114	2.067	0.665	0.142
	0.572	800	15.876	0.140	168.457	0.648	94.108	0.639	531.927	0.711	4884.129	3.081	0.559	0.120
	0.646	1000	10.660	0.122	142.022	0.535	66.888	0.506	374.424	0.988	3280.264	2.574	0.535	0.148
	0.707	1200	9.202	0.118	117.330	0.613	55.015	0.319	307.166	0.599	2853.097	3.409	0.672	0.175
	0.805	1600	16.547	0.227	157.187	0.687	91.861	0.572	497.203	1.045	4951.335	3.665	0.191	0.208
	0.878	2000	16.111	0.127	108.987	0.418	70.454	0.334	368.458	1.135	4921.621	3.095	0.672	0.157
	0.974	3000	21.080	0.195	118.413	0.697	93.492	0.302	485.417	0.829	6426.077	3.307	0.625	0.183
	1.000	4000	7.552	0.140	27.192	0.279	25.398	0.181	129.483	0.607	2316.412	3.203	1.008	0.495
mi84-a44a	mass=	0.0073	J=		0.000966133	+/-	0.000002885		tot.gas.age=			0.060	+/-	0.009
MI84 A44a IXT-26	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
rhyolite	0.026	100	18.933	0.184	27.930	0.331	10.066	0.175	510.201	0.712	5541.000	4.657	-0.183	0.186
	0.115	200	3.994	0.106	71.979	0.413	12.492	0.243	1788.392	1.110	1237.415	2.015	0.056	0.031
	0.244	300	1.944	0.117	84.111	0.480	14.994	0.209	2583.106	2.713	652.615	1.246	0.053	0.023
	0.372	400	2.150	0.076	121.323	0.465	14.404	0.258	2553.237	2.237	718.812	1.607	0.057	0.015
	0.497	500	3.322	0.108	175.514	0.544	11.832	0.350	2514.809	1.464	1029.558	1.624	0.033	0.022
	0.623	600	2.128	0.078	232.469	1.145	9.899	0.200	2520.976	1.429	730.485	1.446	0.070	0.016
	0.782	800	1.917	0.078	363.707	1.721	11.043	0.263	3173.740	2.745	686.919	1.201	0.066	0.013
	0.887	1000	0.889	0.112	281.465	0.960	7.346	0.195	2101.685	1.404	399.678	0.852	0.113	0.028

	0.933	1200	1.020	0.078	142.814	0.344	3.880	0.184	911.798	1.030	325.798	0.869	0.047	0.044
	0.964	1600	1.684	0.076	116.379	0.463	4.819	0.159	623.312	1.038	512.078	1.212	0.040	0.063
	0.988	2000	2.796	0.049	82.795	0.429	5.390	0.073	475.760	0.841	861.236	0.564	0.128	0.053
	0.996	3000	3.621	0.093	27.687	0.313	3.351	0.080	174.004	0.415	1074.369	1.553	0.044	0.275
	1.000	4000	2.122	0.081	10.843	0.238	1.014	0.102	70.149	0.326	665.684	1.038	0.961	0.594
mi84-a33a	mass=	0.0105	J=		0.000972157	+/-	0.000002806			tot.gas.age=		0.587	+/-	0.010
MI84 A33a COMP-2	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
rhyolite	0.003	100	3.865	0.123	18.200	0.214	2.032	0.098	66.120	0.281	1122.917	2.495	-0.507	0.964
	0.035	200	6.654	0.105	173.052	0.657	7.417	0.149	626.832	1.003	2078.049	2.982	0.312	0.087
	0.107	300	1.046	0.103	359.338	0.740	9.709	0.224	1419.386	1.175	776.141	1.544	0.577	0.038
	0.237	400	0.779	0.084	581.454	1.030	8.754	0.186	2551.177	1.006	1118.442	1.518	0.611	0.017
	0.417	500	0.743	0.092	774.268	0.859	8.408	0.263	3546.744	2.425	1442.481	0.770	0.605	0.013
	0.607	600	0.748	0.069	859.468	1.839	8.432	0.261	3744.122	2.313	1492.607	2.021	0.596	0.010
	0.827	800	1.067	0.114	1136.997	1.192	17.054	0.329	4341.945	2.734	1812.264	2.102	0.605	0.014
	0.926	1000	1.167	0.077	624.597	1.123	22.744	0.269	1953.297	1.836	1016.130	1.539	0.603	0.020
	0.957	1200	1.332	0.104	283.119	0.731	24.923	0.202	606.338	1.205	562.546	1.204	0.489	0.089
	0.969	1600	2.141	0.106	176.948	0.789	25.376	0.275	248.198	0.589	682.168	1.160	0.350	0.221
	0.974	2000	1.230	0.087	126.233	0.550	14.290	0.190	93.954	0.253	384.458	1.282	0.392	0.478
	0.989	3000	2.701	0.124	597.824	0.448	46.514	0.253	300.974	0.594	945.256	1.105	0.857	0.214
	1.000	4000	1.056	0.099	519.874	0.930	28.925	0.177	210.749	0.548	417.572	1.868	0.879	0.244
mi79-o9a	mass=	0.0057	J=		0.000838241	+/-	0.000001568			tot.gas.age=		0.094	+/-	0.012
MI79 O9a COMP-7	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
biotite	0.001	75	5.092	0.105	0.769	0.328	1.414	0.077	11.343	0.168	1526.584	1.076	2.936	4.117
	0.002	150	8.296	0.095	1.550	0.245	2.315	0.092	24.806	0.175	2344.552	2.282	-6.536	1.721
	0.003	225	7.382	0.108	1.924	0.331	2.514	0.112	29.698	0.293	2119.655	2.417	-3.151	1.635
	0.005	300	5.236	0.121	3.303	0.353	2.702	0.098	36.348	0.251	1560.938	1.367	0.568	1.494
	0.008	400	5.984	0.128	4.678	0.413	4.140	0.142	67.791	0.207	1738.065	1.475	-0.676	0.847
	0.015	500	5.504	0.106	6.042	0.393	7.344	0.093	149.559	0.462	1604.197	1.741	-0.226	0.316
	0.024	550	3.563	0.083	4.931	0.351	7.819	0.155	176.655	0.444	1075.318	1.497	0.192	0.211
	0.035	600	3.076	0.109	5.432	0.366	9.797	0.150	226.021	0.470	939.262	1.349	0.203	0.216
	0.053	700	4.172	0.114	6.463	0.315	15.914	0.168	391.340	0.760	1199.439	1.045	-0.129	0.130
	0.078	800	4.499	0.086	7.452	0.367	20.320	0.250	519.836	0.944	1295.667	1.666	-0.098	0.075
	0.131	1000	7.185	0.135	13.987	0.441	42.060	0.275	1101.424	1.310	2176.446	2.323	0.073	0.055
	0.213	1200	9.367	0.102	21.335	0.341	65.087	0.232	1703.151	1.252	2896.174	2.317	0.114	0.027
	0.318	1400	9.561	0.166	24.515	0.358	82.284	0.257	2191.142	1.314	3028.897	2.399	0.140	0.034
	0.436	1600	10.693	0.135	32.925	0.522	91.528	0.404	2452.294	2.187	3332.824	1.562	0.107	0.025
	0.546	1800	8.370	0.127	34.925	0.559	86.663	0.387	2297.473	2.414	2709.364	2.221	0.155	0.025

	0.651	2000	9.523	0.148	30.895	0.304	84.314	0.336	2186.426	2.175	2973.057	1.904	0.110	0.030
	0.752	2200	6.857	0.166	36.365	0.521	82.369	0.424	2095.662	1.531	2163.526	1.582	0.099	0.035
	0.829	2400	5.297	0.098	32.474	0.752	64.365	0.234	1607.001	1.336	1661.892	1.130	0.091	0.027
	0.906	2800	4.627	0.100	36.596	0.365	66.459	0.429	1610.399	1.911	1519.112	1.571	0.142	0.028
	0.945	3200	2.434	0.071	28.737	0.458	34.710	0.286	807.329	1.103	797.677	0.736	0.147	0.039
	0.975	3600	1.834	0.067	24.133	0.613	28.076	0.242	637.750	0.954	581.387	0.618	0.094	0.047
	1.000	4000	1.304	0.079	29.768	0.553	25.126	0.222	516.118	0.611	428.540	0.867	0.127	0.068
mi79-s7a	mass=	0.0185	J=	0.000826026		+/-	0.000001920			tot.gas.age=		-0.027	+/-	0.007
MI79 S7a IXT-32	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
rhyolite	0.000	100	34.040	0.269	-0.019	0.183	7.538	0.108	6.927	0.132	10054.717	3.772	-0.884	17.123
	0.002	200	18.056	0.110	1.700	0.305	10.511	0.146	47.662	0.241	5293.389	3.421	-1.323	1.020
	0.005	300	6.233	0.146	4.100	0.147	17.307	0.194	106.974	0.335	1866.889	1.920	0.349	0.601
	0.009	400	6.864	0.136	5.901	0.182	25.860	0.284	169.279	0.631	1973.995	1.644	-0.477	0.355
	0.016	500	0.125	0.084	8.030	0.161	31.907	0.232	220.077	0.622	58.794	0.949	0.148	0.169
	0.025	600	0.395	0.093	12.543	0.330	47.313	0.305	330.351	0.954	86.893	0.587	-0.134	0.124
	0.044	800	0.681	0.100	26.833	0.226	98.820	0.365	684.338	1.365	148.853	0.776	-0.114	0.064
	0.068	1000	0.816	0.092	35.002	0.229	120.932	0.421	847.568	0.998	206.157	0.503	-0.062	0.048
	0.097	1200	0.550	0.098	42.337	0.319	142.622	0.309	1004.501	1.805	145.242	0.803	-0.026	0.043
	0.186	1600	4.548	0.105	140.743	0.555	456.448	0.680	3174.650	2.151	1288.477	1.866	-0.026	0.015
	0.289	2000	39.414	0.210	158.495	0.498	529.351	0.878	3636.668	1.440	11515.271	4.263	-0.054	0.025
	0.590	3000	33.011	0.148	479.261	0.775	1528.196	1.294	10673.351	1.418	9603.414	5.415	-0.021	0.006
	1.000	4000	42.905	0.307	678.172	0.987	2052.236	1.829	14504.540	5.724	12557.616	3.021	-0.012	0.009
mi84-a52a	mass=	0.0137	J=	0.000970402		+/-	0.000005138			tot.gas.age=		0.282	+/-	0.008
MI84 A52a COMP-3	F39	LP(mW)	Vol36	Err36	Vol37	Err37	Vol38	Err38	Vol39	Err39	Vol40	Err40	Age(Ma)	AgeErr
rhyolite	0.000	100	0.342	0.091	0.445	0.140	0.783	0.052	3.938	0.188	92.763	0.611	-3.668	11.973
	0.002	200	0.797	0.078	3.617	0.191	3.217	0.064	25.547	0.245	235.973	0.843	0.033	1.581
	0.005	300	0.226	0.081	8.583	0.260	5.913	0.159	57.096	0.307	77.763	0.500	0.340	0.737
	0.010	400	0.163	0.071	13.839	0.292	9.164	0.176	90.182	0.320	48.519	0.451	0.006	0.405
	0.017	500	-0.020	0.072	20.188	0.293	12.987	0.135	128.899	0.435	43.183	0.485	0.667	0.291
	0.026	600	0.039	0.076	27.468	0.245	17.854	0.131	173.730	0.777	49.556	0.570	0.384	0.228
	0.044	800	0.077	0.036	53.472	0.275	33.662	0.263	334.974	0.846	89.025	0.619	0.347	0.055
	0.070	1000	0.090	0.078	76.095	0.698	47.342	0.214	476.063	0.709	94.181	0.759	0.249	0.085
	0.101	1200	0.090	0.049	89.714	0.654	55.957	0.361	560.951	0.770	112.420	0.842	0.268	0.045
	0.177	1600	0.987	0.040	224.761	0.528	138.903	0.384	1401.387	1.055	538.039	1.003	0.308	0.015
	0.365	2000	0.119	0.085	547.196	1.461	340.108	0.957	3439.463	1.817	605.127	1.290	0.290	0.013
	0.856	3000	0.547	0.110	1436.382	2.439	893.790	0.971	9009.813	2.990	1598.233	1.208	0.279	0.006
	1.000	4000	0.220	0.094	419.192	1.328	262.905	0.610	2643.617	2.496	459.254	0.986	0.261	0.018