

## Supplement 1: $^{40}\text{Ar}/^{39}\text{Ar}$ data

Standard hornblende MMhb-1 (Sampson and Alexander, 1987) and the samples for dating were wrapped in Al foil packages and irradiated for 10 MWhr in position 5C at the McMaster Nuclear Reactor, Hamilton, Ontario. Within the reactor can the samples were loaded in two layers with 3 packages of standard within each layer. The standards were arranged in such a way as to detect horizontal and vertical gradients. Gradients within the McMaster Reactor position 5C (in the core) are probably less than 2% based on analysis of standards. Given the low gradient seen in the reactor, the irradiation parameter, J, for samples of a given level was calculated using an average of the standards from that level. The age of MMhb-1 used was 513.9 Ma based on new analyses by Lanphere and Dalrymple (2001). Decay constants are from Steiger and Jager (1977).

Estimates for the radiogenic argon, potassium and calcium contents of the minerals was made using the values from MMhb-1 as reference (Sampson and Alexander, 1987); Lanphere and Dalrymple, 2000)

Standards were fused and samples step heated up to 1600C using an on-line Modifications Ltd. low-blank furnace. Gas cleanup was accomplished using a two stage process and a 40 minute heating cycle. The basic procedure was: 1. Heating to a temperature for 20 minutes with the sample exposed to a titanium getter at 700C and a liquid nitrogen cold-trap. 2. Continued heating for an additional 20 minutes into charcoal cooled by liquid nitrogen. Following the heating step, the gas was released from the charcoal for 10 minutes and cleaned up using a SAES ST-101 getter. Once the gas had undergone this final clean-up, it was inlet into the mass spectrometer.

The mass spectrometer is a Nuclide 6-60-SGA with a 15 cm radius. The basic sensitivity of the instrument, with the current extraction system (final cleanup volume) is  $6.5 \times 10^{-15}$  mol/mV. Before a sample is introduced into the furnace, the furnace is heated to the lowest temperature step to be measured (usually 500C). This 'sample' is measured as the system blank and the voltages for the various peaks are subtracted from the subsequent measurements. It was found that the furnace blank does not change substantially as the furnace is stepped up to 1600C, so we feel that the 500C heating step with no sample is an acceptable correction for the system blank. The blank value of 36 is below the detection limit of the instrument, while 40 blanks are on the order of 1 mV ( $6.5 \times 10^{-15}$  mol). For the samples from this study, 10-12 temperature steps were used in constructing the age spectrum. Such an experiment could be completed in a single working day. Unless otherwise stated, all uncertainties are quoted at the +/- 1 sigma level.

### References for the Appendix:

Lanphere, M.A., and Dalrymple, G.B., 2000, First-principles calibration of  $^{38}\text{Ar}$  tracers: Implications for the ages of  $^{40}\text{Ar}/^{39}\text{Ar}$  fluence monitors, U.S. Geological Survey Professional Paper 1621, 10 p.

Samson S. D., and Alexander E. C. (1987) Calibration of the interlaboratory  $^{40}\text{Ar}/^{39}\text{Ar}$  dating standard, MMhb1. *Chem. Geol.* **66**, 27-34.

Steiger, R.H. and Jaeger, E., 1977, Subcommittee on geochronology: Convention on the use of decay constants in geo and cosmochemistry, *Earth and Planet Science Letters*, v. 36, p. 359-362.

**TM-4 Hornblende from pyroxenite**

Weighted average of J from standards = 8.036e-03 +/- 1.161e-05

Temp. (Deg C)	Cum. <sup>39</sup> Ar	<sup>40</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>37</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>36</sup> Ar/ <sup>39</sup> Ar meas.	+/-	% Atm. <sup>40</sup> Ar	Ca/K	+/-	Cl/K	+/-	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	+/-	Age (Ma)	+/- (Ma)
800	0.0004	4372.076	368.697	36.09566	3.04674	2.96580	0.25854	20.0	67.824	5.863	3.54013	0.29919	3582.546	310.028	6123.3	150.9
875	0.0016	1186.998	35.558	39.40219	1.18115	0.64188	0.03023	15.7	74.201	2.283	1.00027	0.03061	1026.584	32.349	4013.3	50.7
925	0.0030	292.251	7.363	13.23326	0.33567	0.16979	0.02031	16.8	24.492	0.627	0.27990	0.00868	245.155	8.594	1963.9	42.0
950	0.0043	113.857	2.919	6.78504	0.17852	0.08782	0.02037	22.4	12.505	0.330	0.18697	0.00701	88.779	6.429	971.5	54.4
975	0.0062	86.294	1.593	6.28717	0.11957	0.05516	0.01460	18.3	11.584	0.221	0.23902	0.00575	70.726	4.516	811.9	41.7
1000	0.0081	103.636	1.940	8.64561	0.16442	0.05860	0.01481	16.1	15.953	0.305	0.39240	0.00826	87.431	4.687	960.1	39.9
1025	0.0103	124.748	2.080	10.02106	0.16903	0.05964	0.01318	13.5	18.508	0.314	0.53344	0.00951	108.557	4.313	1131.5	33.4
1050	0.0126	114.098	1.758	9.99525	0.15581	0.04637	0.01216	11.4	18.460	0.290	0.36429	0.00641	101.779	3.942	1078.3	31.4
1075	0.0159	72.649	0.764	7.66095	0.08209	0.03463	0.00827	13.3	14.127	0.152	0.14808	0.00260	63.278	2.544	741.7	24.5
1100	0.0239	44.516	0.202	6.14457	0.02855	0.01246	0.00349	7.2	11.320	0.053	0.07366	0.00093	41.434	1.052	518.5	11.4
1150	0.2515	27.353	0.027	5.40803	0.00469	0.00400	0.00012	2.8	9.958	0.009	0.03901	0.00005	26.641	0.045	350.0	0.5
1200	0.9807	26.613	0.026	5.61540	0.00488	0.00322	0.00004	2.0	10.341	0.009	0.03503	0.00004	26.151	0.028	344.1	0.3
1300	0.9880	33.554	0.172	5.84801	0.03049	0.02587	0.00380	21.5	10.771	0.056	0.03981	0.00097	26.419	1.136	347.3	13.6
1415	0.9986	71.844	0.258	8.03346	0.02895	0.14815	0.00267	60.1	14.818	0.054	0.04566	0.00068	28.791	0.788	375.5	9.3
1600	1.0000	241.969	6.362	6.98699	0.18826	0.74250	0.02840	90.5	12.879	0.349	0.04625	0.00532	23.161	6.161	307.9	75.3
Integrated		32.413	0.023	5.70107	0.00384	0.00927	0.00011	7.1	10.500	0.007	0.04283	0.00004	30.185	0.040	391.8	0.7

**TM-1 Hornblende from cumulate gabbro**

Weighted average of J from standards = 8.036e-03 +/- 1.161e-05

Temp. (Deg C)	Cum. <sup>39</sup> Ar	<sup>40</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>37</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>36</sup> Ar/ <sup>39</sup> Ar meas.	+/-	% Atm. <sup>40</sup> Ar	Ca/K	+/-	Cl/K	+/-	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	+/-	Age (Ma)	+/- (Ma)
600	0.0006	577.032	25.529	22.46344	0.99734	0.27205	0.03593	13.6	41.829	1.885	1.32322	0.05928	505.693	24.874	2926.4	71.2
800	0.0014	442.447	13.408	28.07583	0.85259	0.26109	0.02446	17.0	52.474	1.623	1.03978	0.03213	374.212	13.492	2504.2	48.8
900	0.0024	67.532	1.638	13.71088	0.33536	-0.04198	0.01885	-19.9	25.384	0.626	0.33265	0.00942	81.668	5.957	910.3	52.1
950	0.0034	37.367	0.941	12.92835	0.32786	-0.07198	0.01958	-59.6	23.923	0.612	0.45202	0.01242	60.086	6.006	710.7	58.7
1000	0.0045	44.827	1.046	22.36396	0.52205	-0.06813	0.01815	-48.7	41.641	0.986	0.44248	0.01133	67.594	5.651	782.7	53.1
1025	0.0055	15.324	0.359	10.03149	0.23465	-0.08108	0.01795	-161.6	18.527	0.436	0.20177	0.00651	40.269	5.393	505.8	59.1
1050	0.0082	20.199	0.192	6.58917	0.06404	-0.03008	0.00723	-46.5	12.142	0.119	0.09199	0.00203	29.682	2.161	385.9	25.3
1075	0.0339	24.586	0.034	5.26070	0.00700	0.00102	0.00074	-0.4	9.686	0.013	0.05169	0.00020	24.737	0.223	327.1	2.7
1100	0.1138	22.997	0.023	5.18417	0.00473	0.00124	0.00024	-0.1	9.544	0.009	0.03779	0.00007	23.068	0.075	306.8	0.9
1125	0.3374	22.731	0.022	5.17244	0.00445	0.00220	0.00009	1.2	9.523	0.008	0.03173	0.00004	22.517	0.034	300.1	0.4

1150	0.6618	22.484	0.022	5.15088	0.00447	0.00206	0.00006	1.0	9.483	0.008	0.02967	0.00003	22.309	0.028	297.5	0.4
1175	0.7604	21.562	0.023	5.19128	0.00481	0.00141	0.00019	0.1	9.558	0.009	0.02763	0.00006	21.578	0.062	288.5	0.8
1200	0.7794	23.443	0.041	5.69387	0.00961	0.00308	0.00101	2.1	10.486	0.018	0.03846	0.00026	23.016	0.302	306.2	3.7
1250	0.8691	24.768	0.026	6.17590	0.00572	0.00390	0.00021	2.8	11.378	0.011	0.04031	0.00007	24.149	0.068	320.0	0.8
1325	0.9506	26.169	0.028	6.78788	0.00642	0.00794	0.00024	7.0	12.510	0.012	0.04098	0.00007	24.413	0.075	323.2	0.9
1450	0.9753	32.017	0.048	6.12026	0.00867	0.03239	0.00078	28.5	11.275	0.016	0.03624	0.00020	22.968	0.233	305.6	2.9
1650	1.0000	48.727	0.079	5.85582	0.00908	0.08764	0.00081	52.3	10.786	0.017	0.03521	0.00021	23.330	0.244	310.0	3.0
Integrated		24.706	0.011	5.51576	0.00213	0.00547	0.00008	4.9	10.157	0.004	0.03659	0.00003	23.558	0.026	312.8	0.5

**TM-5 Hornblende from syenite**

Weighted average of J from standards = 8.036e-03 +/- 1.161e-05

Temp. (Deg C)	Cum. <sup>39</sup> Ar	<sup>40</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>37</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>36</sup> Ar/ <sup>39</sup> Ar meas.	+/-	% Atm. <sup>40</sup> Ar	Ca/K	+/-	Cl/K	+/-	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	+/-	Age (Ma)	+/- (Ma)
500	0.0004	144.780	5.475	3.21379	0.13491	0.38892	0.03331	79.2	5.909	0.249	0.08071	0.00809	30.128	8.925	391.2	104.2
700	0.0064	27.971	0.069	2.57971	0.00712	0.03503	0.00178	36.3	4.741	0.013	0.05857	0.00047	17.816	0.527	241.4	6.7
800	0.0193	19.681	0.028	1.77297	0.00292	0.01229	0.00084	17.8	3.257	0.005	0.04265	0.00022	16.171	0.250	220.4	3.2
850	0.0285	21.436	0.038	2.25344	0.00449	0.00487	0.00117	5.9	4.141	0.008	0.07125	0.00032	20.165	0.349	271.0	4.4
900	0.0398	24.015	0.037	2.57360	0.00425	0.00423	0.00095	4.4	4.730	0.008	0.10193	0.00028	22.969	0.285	305.6	3.5
950	0.0558	24.561	0.032	2.93762	0.00380	0.00392	0.00068	3.8	5.400	0.007	0.14402	0.00025	23.639	0.203	313.8	2.5
1000	0.2497	25.517	0.025	2.33119	0.00202	0.00244	0.00006	2.1	4.284	0.004	0.11040	0.00010	24.979	0.030	330.0	0.4
1050	0.6539	23.431	0.023	2.33388	0.00203	0.00193	0.00003	1.7	4.289	0.004	0.09121	0.00008	23.043	0.024	306.5	0.3
1100	0.7057	22.432	0.024	2.56422	0.00242	0.00298	0.00021	3.1	4.713	0.004	0.08482	0.00010	21.751	0.066	290.6	0.8
1200	0.9726	23.175	0.023	2.55569	0.00223	0.00272	0.00004	2.6	4.697	0.004	0.08881	0.00008	22.573	0.026	300.7	0.3
1600	1.0000	34.163	0.041	3.49954	0.00388	0.04466	0.00040	37.9	6.436	0.007	0.08012	0.00014	21.249	0.121	284.4	1.5
Integrated		24.040	0.012	2.44271	0.00112	0.00403	0.00004	4.2	4.489	0.002	0.09361	0.00005	23.042	0.016	306.5	0.5

**75-5 Hornblende from syenite**

Weighted average of J from standards = 8.724e-03 +/- 4.189e-05

Temp. (Deg C)	Cum. <sup>39</sup> Ar	<sup>40</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>37</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>36</sup> Ar/ <sup>39</sup> Ar meas.	+/-	% Atm. <sup>40</sup> Ar	Ca/K	+/-	Cl/K	+/-	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	+/-	Age (Ma)	+/- (Ma)
500	0.0089	70.762	0.188	7.89889	0.02568	0.16812	0.00203	69.4	14.568	0.048	0.03605	0.00050	21.757	0.593	313.5	7.9
700	0.0333	29.885	0.037	3.13289	0.00667	0.04384	0.00073	42.6	5.760	0.012	0.04115	0.00019	17.172	0.216	251.8	3.0
800	0.0631	29.951	0.034	4.70476	0.00676	0.02807	0.00059	26.5	8.659	0.012	0.04372	0.00015	22.048	0.177	317.4	2.3
850	0.0768	28.567	0.052	3.60130	0.01181	0.01179	0.00130	11.3	6.623	0.022	0.05909	0.00034	25.385	0.387	360.9	5.0
900	0.0887	27.170	0.056	2.56092	0.01247	0.00669	0.00149	6.6	4.707	0.023	0.07804	0.00040	25.400	0.443	361.1	5.7
950	0.1159	28.217	0.033	2.64867	0.00582	0.00562	0.00065	5.2	4.868	0.011	0.10475	0.00020	26.772	0.196	378.7	2.5

1000	0.1792	23.657	0.022	2.98118	0.00329	0.00272	0.00028	2.5	5.481	0.006	0.15980	0.00015	23.092	0.085	331.1	1.1
1050	0.3287	21.752	0.019	3.47228	0.00285	0.00186	0.00012	1.3	6.386	0.005	0.16280	0.00013	21.484	0.040	309.9	0.5
1100	0.5168	21.216	0.018	3.89496	0.00310	0.00202	0.00009	1.4	7.165	0.006	0.13810	0.00011	20.936	0.033	302.6	0.4
1150	0.7807	20.968	0.019	4.51124	0.00366	0.00217	0.00007	1.4	8.302	0.007	0.12521	0.00011	20.697	0.028	299.5	0.4
1200	0.9959	20.892	0.018	5.93195	0.00462	0.00296	0.00008	2.1	10.927	0.009	0.14082	0.00012	20.514	0.030	297.0	0.4
1600	1.0000	28.637	0.157	9.10328	0.05958	0.02617	0.00431	24.6	16.803	0.111	0.19122	0.00150	21.687	1.288	312.6	17.0
Integrated		22.623	0.008	4.38457	0.00159	0.00595	0.00006	6.3	8.068	0.003	0.13178	0.00005	21.225	0.020	306.5	1.4

**75-5 Biotite from syenite**

Weighted average of J from standards = 8.724e-03 +/- 4.189e-05

Temp. (Deg C)	Cum. <sup>39</sup> Ar	<sup>40</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>37</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>36</sup> Ar/ <sup>39</sup> Ar meas.	+/-	% Atm. <sup>40</sup> Ar	Ca/K	+/-	Cl/K	+/-	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	+/-	Age (Ma)	+/- (Ma)
500	0.0148	16.823	0.022	0.49022	0.00619	0.03669	0.00079	64.3	0.900	0.011	0.02722	0.00020	5.991	0.234	91.9	3.5
650	0.0896	20.899	0.018	0.03934	0.00122	0.00639	0.00016	9.0	0.072	0.002	0.03326	0.00005	18.986	0.050	276.5	0.7
750	0.3223	20.285	0.017	0.02527	0.00039	0.00069	0.00005	1.0	0.046	0.001	0.03406	0.00003	20.054	0.022	290.9	0.3
800	0.5012	20.564	0.017	0.02336	0.00050	0.00027	0.00006	0.4	0.043	0.001	0.03424	0.00003	20.458	0.026	296.3	0.3
850	0.5966	20.645	0.018	0.03070	0.00095	0.00027	0.00012	0.4	0.056	0.002	0.03416	0.00004	20.539	0.040	297.4	0.5
900	0.6612	21.184	0.019	0.06419	0.00140	0.00058	0.00018	0.8	0.118	0.003	0.03516	0.00005	20.990	0.056	303.4	0.8
975	0.7307	22.140	0.019	0.10381	0.00130	0.00034	0.00017	0.4	0.190	0.002	0.03694	0.00005	22.022	0.053	317.0	0.7
1050	0.8816	21.072	0.018	0.06983	0.00060	0.00024	0.00008	0.3	0.128	0.001	0.03514	0.00004	20.978	0.029	303.2	0.4
1075	0.9943	20.244	0.017	0.11661	0.00081	0.00027	0.00010	0.4	0.214	0.001	0.03356	0.00004	20.144	0.035	292.1	0.5
1200	0.9991	19.422	0.062	2.50751	0.02037	-0.00320	0.00242	-5.9	4.608	0.038	0.04481	0.00062	20.562	0.718	297.7	9.6
1600	1.0000	27.160	0.429	5.83715	0.13488	0.02160	0.01268	21.9	10.751	0.249	0.09077	0.00345	21.267	3.774	307.0	50.1
Integrated		20.667	0.007	0.07552	0.00030	0.00139	0.00004	2.0	0.139	0.001	0.03442	0.00001	20.234	0.013	293.3	1.3

**1079/11 Whole rock from basalt**

Weighted average of J from standards = 8.724e-03 +/- 4.189e-05

Temp. (Deg C)	Cum. <sup>39</sup> Ar	<sup>40</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>37</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>36</sup> Ar/ <sup>39</sup> Ar meas.	+/-	% Atm. <sup>40</sup> Ar	Ca/K	+/-	Cl/K	+/-	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	+/-	Age (Ma)	+/- (Ma)
500	0.0026	559.790	5.531	4.15184	0.14084	0.23843	0.00775	12.5	7.639	0.260	0.42006	0.00458	490.945	5.337	3002.9	15.9
700	0.0295	76.039	0.108	4.18829	0.01416	0.03527	0.00071	13.3	7.706	0.026	0.10832	0.00024	66.082	0.232	821.2	2.3
775	0.0694	26.073	0.031	3.01428	0.00931	0.00923	0.00048	9.6	5.542	0.017	0.02168	0.00012	23.590	0.144	337.6	1.9
850	0.1327	19.792	0.021	1.25190	0.00565	0.00306	0.00030	4.1	2.299	0.010	0.01638	0.00008	18.970	0.092	276.3	1.2
900	0.1934	18.051	0.019	1.31252	0.00590	0.00251	0.00032	3.6	2.410	0.011	0.02150	0.00008	17.393	0.095	254.9	1.3
950	0.2583	17.204	0.018	2.11193	0.00574	0.00419	0.00029	6.3	3.880	0.011	0.02639	0.00008	16.117	0.089	237.3	1.2
1000	0.3190	18.086	0.020	3.48906	0.00665	0.00373	0.00031	4.7	6.417	0.012	0.02780	0.00009	17.255	0.095	253.0	1.3

1050	0.4039	21.615	0.022	2.96675	0.00489	0.00260	0.00022	2.5	5.454	0.009	0.04806	0.00007	21.082	0.069	304.6	0.9
1100	0.5463	23.770	0.024	4.23991	0.00450	0.00280	0.00013	2.1	7.801	0.008	0.07110	0.00008	23.296	0.046	333.8	0.6
1180	0.8120	29.399	0.030	5.39869	0.00502	0.00379	0.00007	2.4	9.941	0.009	0.08970	0.00009	28.756	0.036	403.8	0.5
1250	0.9834	35.038	0.036	6.97323	0.00673	0.00991	0.00011	6.9	12.853	0.012	0.14841	0.00015	32.754	0.048	453.4	0.6
1600	1.0000	66.613	0.128	8.05275	0.02559	0.08938	0.00115	38.8	14.854	0.047	0.11757	0.00037	40.993	0.350	551.6	4.1
Integrated		29.246	0.012	4.37289	0.00205	0.00759	0.00007	6.6	8.047	0.004	0.07603	0.00004	27.379	0.023	386.4	1.7

**1090-3 Biotite from granodiorite**

Weighted average of J from standards = 8.724e-03 +/- 4.189e-05

Temp. (Deg C)	Cum. <sup>39</sup> Ar	<sup>40</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>37</sup> Ar/ <sup>39</sup> Ar meas.	+/-	<sup>36</sup> Ar/ <sup>39</sup> Ar meas.	+/-	% Atm. <sup>40</sup> Ar	Ca/K	+/-	Cl/K	+/-	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	+/-	Age (Ma)	+/- (Ma)
500	0.0475	14.685	0.015	0.00619	0.00337	0.02569	0.00020	51.8	0.011	0.006	0.08118	0.00009	7.065	0.059	107.9	0.9
625	0.1067	10.020	0.010	0.00787	0.00270	0.00280	0.00016	8.3	0.014	0.005	0.08804	0.00009	9.164	0.047	138.8	0.7
700	0.2252	9.563	0.009	0.00311	0.00135	0.00059	0.00008	1.8	0.006	0.002	0.08734	0.00008	9.359	0.025	141.6	0.4
750	0.3572	9.429	0.009	0.00301	0.00121	0.00028	0.00007	0.9	0.006	0.002	0.08580	0.00008	9.318	0.023	141.0	0.3
800	0.4523	9.439	0.009	0.00487	0.00169	0.00025	0.00010	0.8	0.009	0.003	0.08557	0.00008	9.336	0.031	141.3	0.4
850	0.5243	9.751	0.010	0.00851	0.00222	0.00068	0.00013	2.1	0.016	0.004	0.08938	0.00009	9.522	0.039	144.0	0.6
900	0.6256	9.637	0.009	0.00489	0.00158	0.00043	0.00009	1.3	0.009	0.003	0.09136	0.00009	9.482	0.029	143.4	0.4
950	0.7727	9.519	0.009	0.00448	0.00109	0.00029	0.00006	0.9	0.008	0.002	0.08727	0.00008	9.405	0.021	142.3	0.3
1000	0.8893	9.328	0.009	0.00656	0.00137	0.00028	0.00008	0.9	0.012	0.003	0.08332	0.00008	9.216	0.025	139.5	0.4
1050	0.9516	9.322	0.009	0.01893	0.00257	0.00043	0.00015	1.4	0.035	0.005	0.08135	0.00008	9.167	0.045	138.8	0.7
1200	0.9855	9.344	0.010	0.10171	0.00471	0.00090	0.00027	2.8	0.187	0.009	0.06878	0.00010	9.057	0.082	137.2	1.2
1600	1.0000	9.352	0.013	0.07166	0.01102	0.00125	0.00064	3.9	0.131	0.020	0.05994	0.00018	8.960	0.190	135.8	2.8
Integrated		9.765	0.003	0.01019	0.00055	0.00176	0.00003	5.3	0.019	0.001	0.08539	0.00003	9.217	0.010	139.5	0.7