

DR Table 2 -  $^{40}\text{Ar}/^{39}\text{Ar}$  data tables for samples CR01 and CR03 from Costa Rica

Sample #: CR01 glass

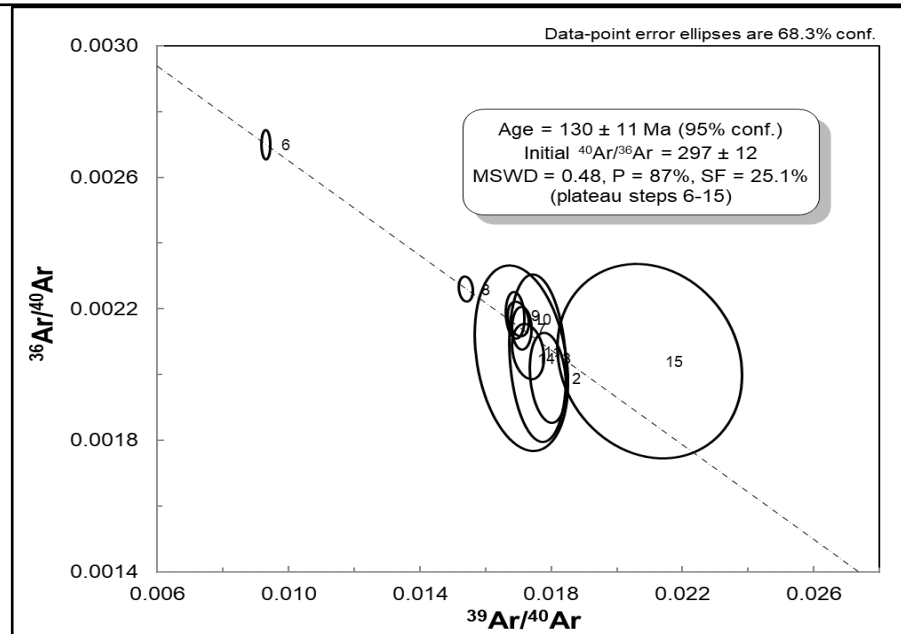
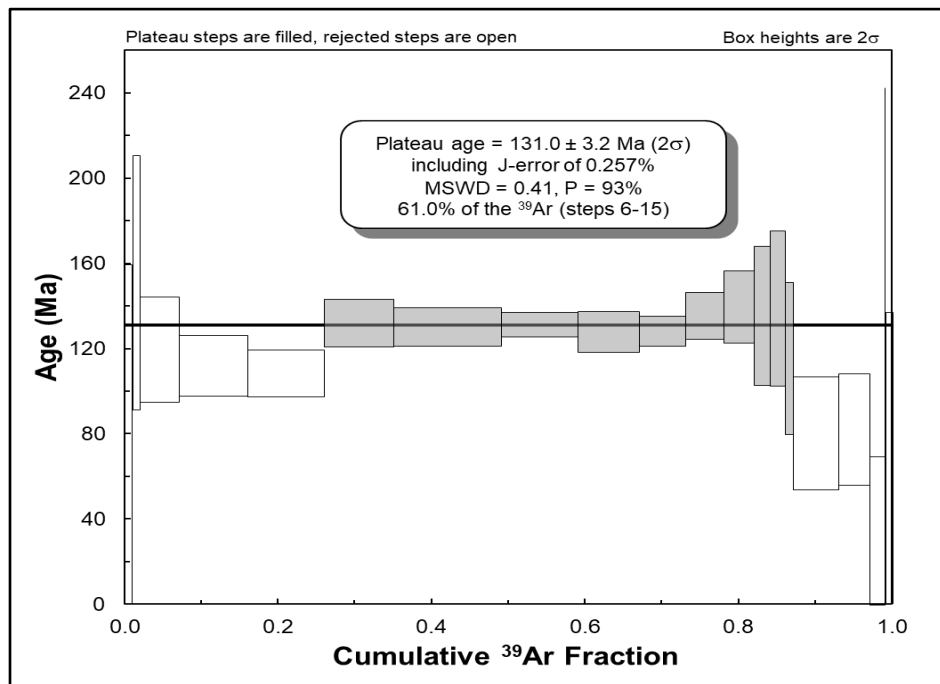
Step #	Laser power (W)							Fraction				
		$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	$^{39}\text{Ar}_K$ (moles)	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	$\pm 1\sigma$	Ca/K	% $^{40}\text{Ar}_{\text{atm}}$	$^{39}\text{Ar}_K$	Age (Ma)	$\pm 2\sigma$ (Ma)
1	0.1	1250.0	1.55	4.190	6.34E-17	12.10	7.07	3.05	99.03	0.01	74.54	85.18
2	0.2	1170.0	10.60	3.890	1.45E-16	25.10	5.15	21.08	97.88	0.02	151.33	59.70
3	0.3	375.0	20.50	1.210	3.94E-16	19.70	2.10	40.97	94.85	0.07	119.82	24.73
4	0.4	134.0	22.90	0.403	7.90E-16	18.40	1.21	45.86	86.54	0.16	112.16	14.27
5	0.5	105.0	24.10	0.306	8.43E-16	17.80	0.92	48.35	83.41	0.26	108.61	10.93
<b>6</b>	0.6	105.0	28.50	0.295	7.75E-16	21.80	0.96	57.49	79.73	0.35	132.14	11.22
<b>7</b>	0.7	57.0	28.80	0.135	1.19E-15	21.50	0.77	58.11	63.24	0.49	130.39	9.00
<b>8</b>	0.8	63.3	28.90	0.156	8.52E-16	21.70	0.49	58.31	66.65	0.59	131.56	5.73
<b>9</b>	0.9	57.5	29.30	0.138	6.94E-16	21.10	0.81	59.16	64.36	0.67	128.04	9.54
<b>10</b>	1.0	57.2	29.90	0.137	5.57E-16	21.20	0.60	60.32	63.96	0.73	128.63	7.04
<b>11</b>	1.1	56.1	29.80	0.129	3.98E-16	22.40	0.95	60.02	61.20	0.78	135.64	11.09
<b>12</b>	1.2	54.3	29.90	0.121	3.34E-16	23.10	1.46	60.37	58.65	0.82	139.72	17.02
<b>13</b>	1.4	55.3	30.30	0.127	2.04E-16	22.40	2.80	61.1	60.70	0.84	135.64	32.72
<b>14</b>	1.5	56.8	31.00	0.130	1.20E-16	23.00	3.14	62.69	60.66	0.86	139.14	36.54
<b>15</b>	2.0	46.7	20.90	0.104	1.43E-16	19.00	3.01	41.69	60.16	0.87	115.70	35.57
16	3.0	25.0	11.20	0.046	5.00E-16	13.10	2.20	22.25	48.29	0.93	80.56	26.52
17	5.0	41.0	15.00	0.101	3.12E-16	13.40	2.17	29.78	67.73	0.97	82.36	26.05
18	10.0	20.7	5.72	0.058	1.41E-16	4.20	3.49	11.28	79.80	0.99	26.22	43.34
19	15.0	27.8	3.39	0.026	4.64E-17	20.50	10.10	6.66	26.41	0.99	124.53	118.18
20	20.0	24.7	0.64	0.052	7.78E-17	9.38	6.50	1.26	61.99	1.00	58.05	79.21

value  $\pm$  %  $2\sigma$  Mass (mg)

#### 0.257 1.565

Plateau steps are shown in bold.

Wt. % K = 0.52



Sample #: CR03 glass

Step #	Laser power (W)								Fraction			
		$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	$^{39}\text{Ar}_K$ (moles)	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	$\pm 1\sigma$	Ca/K	% $^{40}\text{Ar}_{\text{atm}}$	$^{39}\text{Ar}_K$	Age (Ma)	$\pm 2\sigma$ (Ma)
1	0.1	489.4	1.38	1.616	4.09E-16	12.10	4.29	2.70	97.53	0.04	74.52	51.85
2	0.2	781.0	3.36	2.606	4.03E-16	11.31	5.42	6.60	98.56	0.08	69.73	65.63
3	0.3	471.2	12.33	1.541	6.08E-16	17.58	2.10	24.45	96.31	0.14	107.29	24.88
4	0.4	137.9	22.50	0.413	8.48E-16	19.19	1.06	45.05	86.38	0.22	116.83	12.47
5	0.5	111.4	24.38	0.326	1.03E-15	18.61	1.02	48.91	83.68	0.32	113.42	12.05
<b>6</b>	<b>0.6</b>	<b>98.2</b>	<b>27.39</b>	<b>0.277</b>	<b>1.11E-15</b>	<b>20.45</b>	<b>1.13</b>	<b>55.12</b>	<b>79.71</b>	<b>0.43</b>	<b>124.24</b>	<b>13.33</b>
<b>7</b>	<b>0.7</b>	<b>72.3</b>	<b>28.59</b>	<b>0.186</b>	<b>9.48E-16</b>	<b>21.56</b>	<b>0.98</b>	<b>57.59</b>	<b>70.97</b>	<b>0.52</b>	<b>130.76</b>	<b>11.50</b>
<b>8</b>	<b>0.8</b>	<b>62.2</b>	<b>28.72</b>	<b>0.153</b>	<b>9.47E-16</b>	<b>21.18</b>	<b>1.06</b>	<b>57.87</b>	<b>66.85</b>	<b>0.61</b>	<b>128.53</b>	<b>12.41</b>
<b>9</b>	<b>0.9</b>	<b>53.5</b>	<b>28.96</b>	<b>0.122</b>	<b>9.14E-16</b>	<b>21.76</b>	<b>0.83</b>	<b>58.36</b>	<b>60.45</b>	<b>0.70</b>	<b>131.90</b>	<b>9.67</b>
<b>10</b>	<b>1.0</b>	<b>47.7</b>	<b>29.60</b>	<b>0.105</b>	<b>8.09E-16</b>	<b>21.20</b>	<b>0.95</b>	<b>59.69</b>	<b>56.75</b>	<b>0.78</b>	<b>128.63</b>	<b>11.11</b>
<b>11</b>	<b>1.1</b>	<b>54.5</b>	<b>29.37</b>	<b>0.125</b>	<b>4.63E-16</b>	<b>21.88</b>	<b>1.30</b>	<b>59.22</b>	<b>60.96</b>	<b>0.83</b>	<b>132.60</b>	<b>15.22</b>
<b>12</b>	<b>1.2</b>	<b>56.9</b>	<b>32.48</b>	<b>0.134</b>	<b>2.69E-16</b>	<b>22.15</b>	<b>2.36</b>	<b>65.67</b>	<b>62.29</b>	<b>0.85</b>	<b>134.16</b>	<b>27.61</b>
<b>13</b>	<b>1.4</b>	<b>44.3</b>	<b>31.08</b>	<b>0.087</b>	<b>3.25E-16</b>	<b>23.30</b>	<b>2.22</b>	<b>62.76</b>	<b>48.96</b>	<b>0.89</b>	<b>140.86</b>	<b>25.85</b>
<b>14</b>	<b>1.5</b>	<b>61.2</b>	<b>30.96</b>	<b>0.156</b>	<b>2.13E-16</b>	<b>19.66</b>	<b>2.98</b>	<b>62.52</b>	<b>68.84</b>	<b>0.91</b>	<b>119.58</b>	<b>35.10</b>
<b>15</b>	<b>2.0</b>	<b>46.6</b>	<b>23.45</b>	<b>0.109</b>	<b>2.59E-16</b>	<b>17.98</b>	<b>2.83</b>	<b>46.99</b>	<b>62.29</b>	<b>0.93</b>	<b>109.69</b>	<b>33.54</b>
<b>16</b>	<b>3.0</b>	<b>34.8</b>	<b>21.72</b>	<b>0.051</b>	<b>2.99E-16</b>	<b>23.00</b>	<b>2.71</b>	<b>43.47</b>	<b>35.33</b>	<b>0.96</b>	<b>139.13</b>	<b>31.59</b>
<b>17</b>	<b>5.0</b>	<b>37.8</b>	<b>24.68</b>	<b>0.066</b>	<b>2.95E-16</b>	<b>22.11</b>	<b>2.14</b>	<b>49.54</b>	<b>42.88</b>	<b>0.99</b>	<b>133.98</b>	<b>25.01</b>
<b>18</b>	<b>10.0</b>	<b>43.2</b>	<b>22.59</b>	<b>0.070</b>	<b>1.07E-16</b>	<b>25.99</b>	<b>5.62</b>	<b>45.25</b>	<b>41.13</b>	<b>1.00</b>	<b>156.47</b>	<b>64.86</b>

value  $\pm$  % 2 $\sigma$  Mass (mg)

#### 0.257 1.903

Plateau steps are shown in bold.

Wt. % K = 0.51

