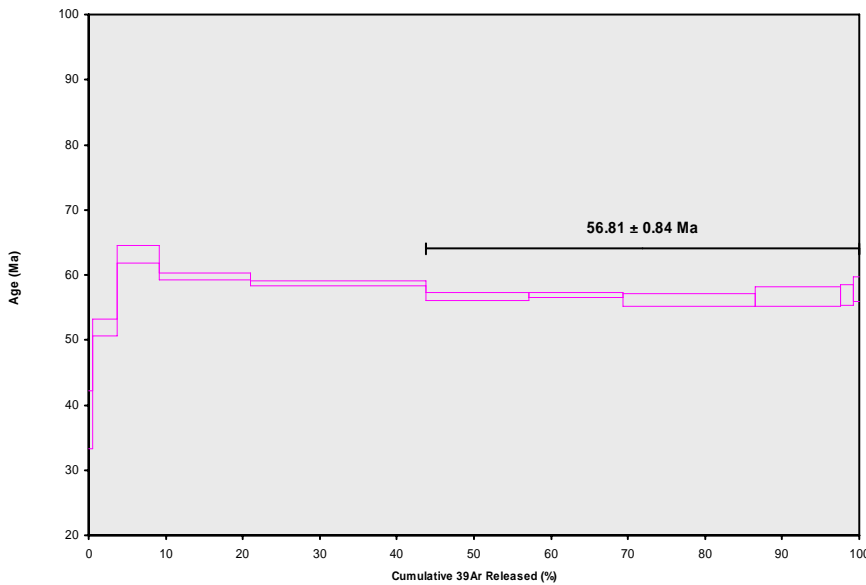


Electronic Appendix 3: $^{40}\text{Ar}/^{39}\text{Ar}$ plateau, normal and inverse isochron diagrams

05C3326.AGE >>> 318802 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.81 ± 0.84
TOTAL FUSION
57.57 ± 0.85
NORMAL ISOCHRON
56.79 ± 0.88
INVERSE ISOCHRON
56.79 ± 0.88

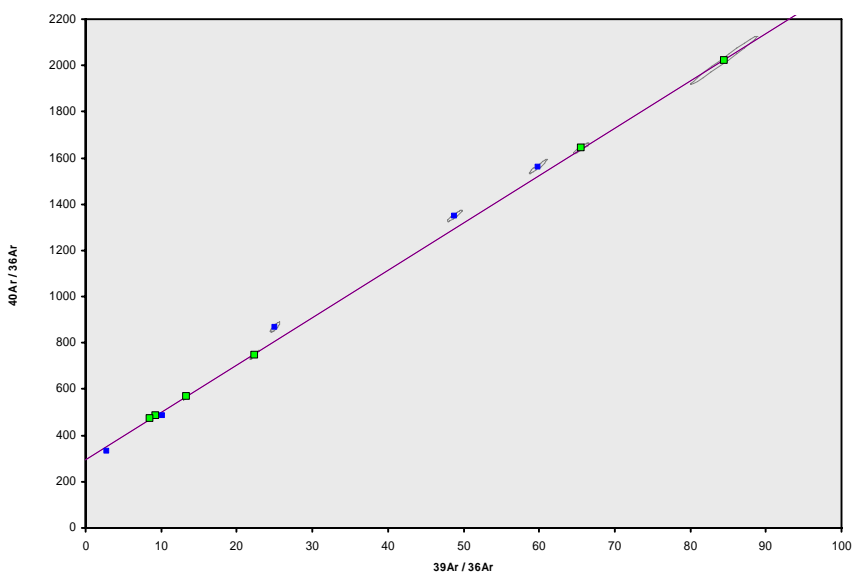
MSWD
0.66

Sample Info

whole rock
Greenland
jh

IRR = OSU5D05
J = 0.0015618 ± 0.0000109

05C3326.AGE >>> 318802 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.81 ± 0.84
TOTAL FUSION
57.57 ± 0.85
NORMAL ISOCHRON
56.79 ± 0.88
INVERSE ISOCHRON
56.79 ± 0.88

MSWD
0.83

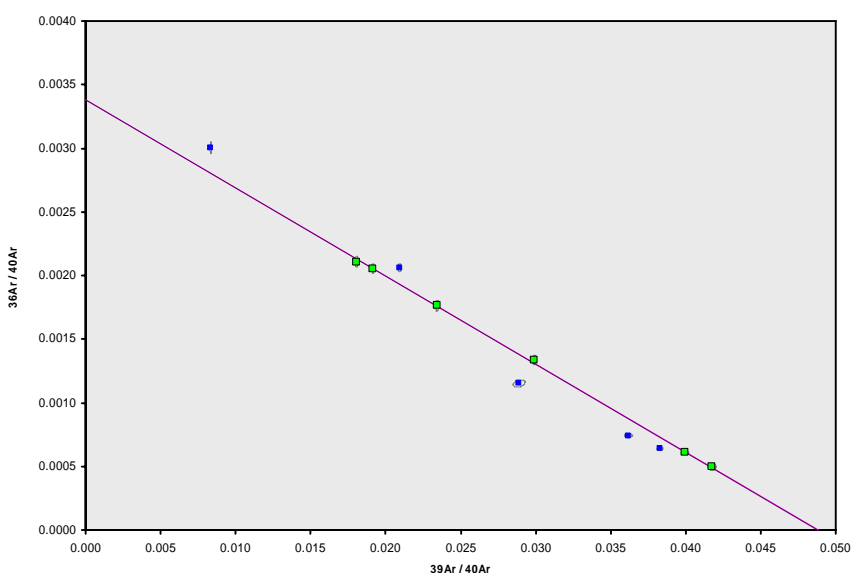
40AR/36AR INTERCEPT
295.9 ± 4.2

Sample Info

whole rock
Greenland
jh

IRR = OSU5D05
J = 0.0015618 ± 0.0000109

05C3326.AGE >>> 318802 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.81 ± 0.84
TOTAL FUSION
57.57 ± 0.85
NORMAL ISOCHRON
56.79 ± 0.88
INVERSE ISOCHRON
56.79 ± 0.88

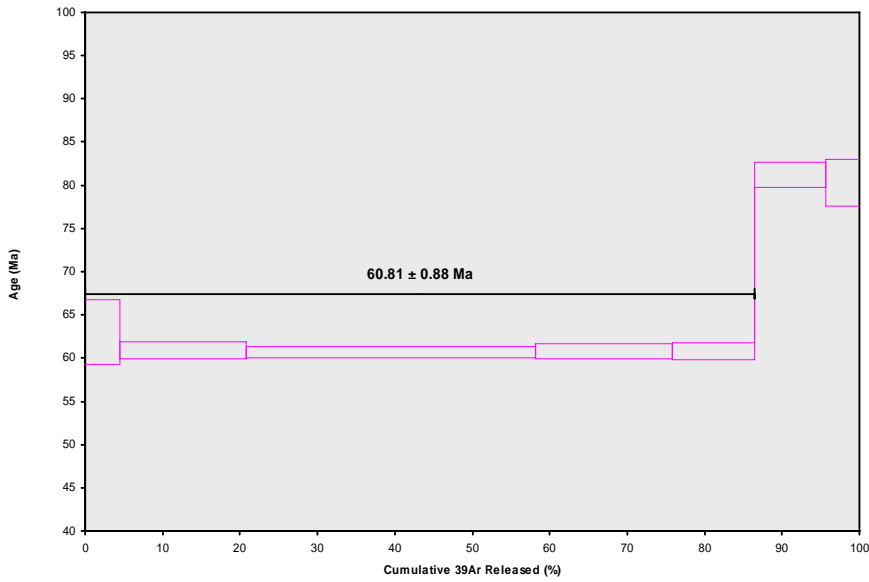
MSWD
0.82

40AR/36AR INTERCEPT
295.9 ± 4.2

Sample Info

whole rock
Greenland
jh

IRR = OSU5D05
J = 0.0015618 ± 0.0000109



Ar-Ages in Ma

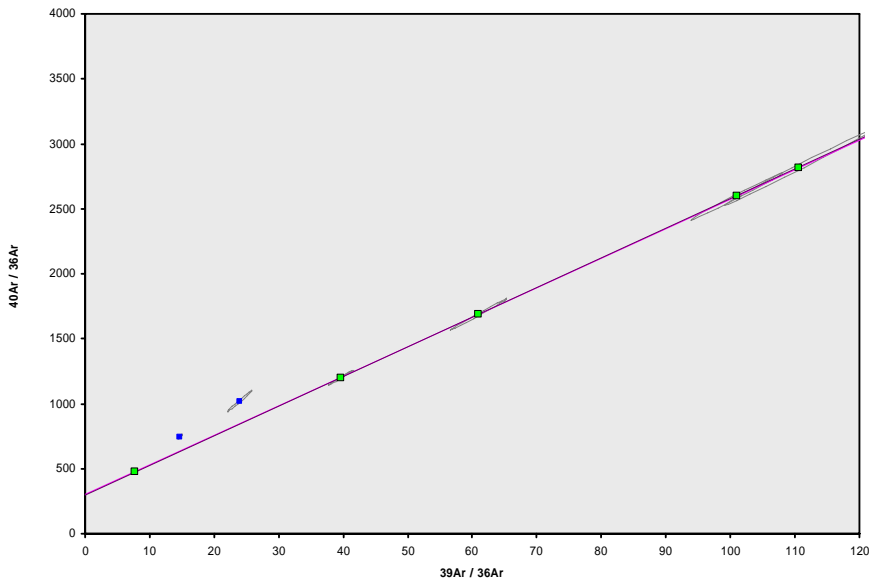
WEIGHTED PLATEAU
60.81 ± 0.88
TOTAL FUSION
63.62 ± 0.92
NORMAL ISOCHRON
60.55 ± 0.99
INVERSE ISOCHRON
60.55 ± 0.99

MSWD
0.38

Sample Info

plagioclase
Greenland
jh

IRR = OSU4A05
J = 0.0015022 ± 0.0000098



Ar-Ages in Ma

WEIGHTED PLATEAU
60.81 ± 0.88
TOTAL FUSION
63.62 ± 0.92
NORMAL ISOCHRON
60.55 ± 0.99
INVERSE ISOCHRON
60.55 ± 0.99

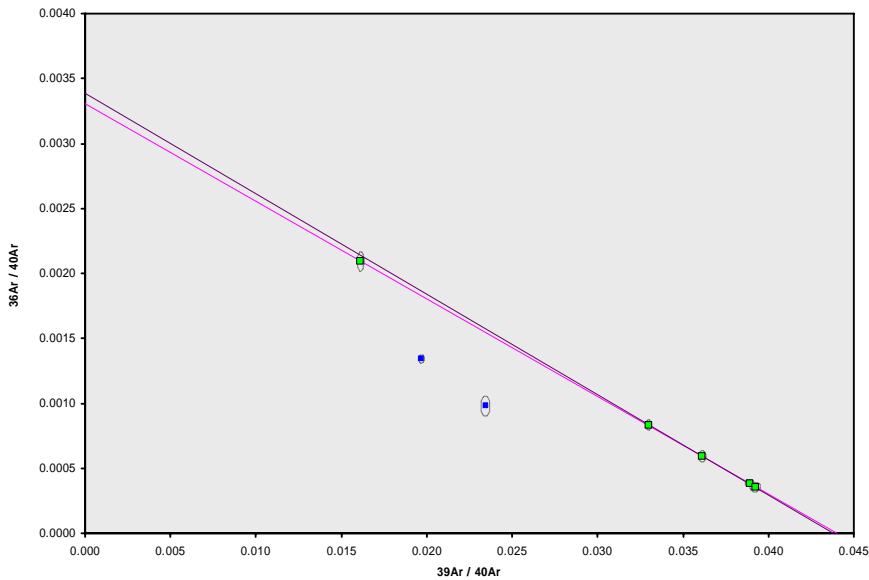
MSWD
0.04

40AR/36AR INTERCEPT
302.2 ± 11.5

Sample Info

plagioclase
Greenland
jh

IRR = OSU4A05
J = 0.0015022 ± 0.0000098



Ar-Ages in Ma

WEIGHTED PLATEAU
60.81 ± 0.88
TOTAL FUSION
63.62 ± 0.92
NORMAL ISOCHRON
60.55 ± 0.99
INVERSE ISOCHRON
60.55 ± 0.99

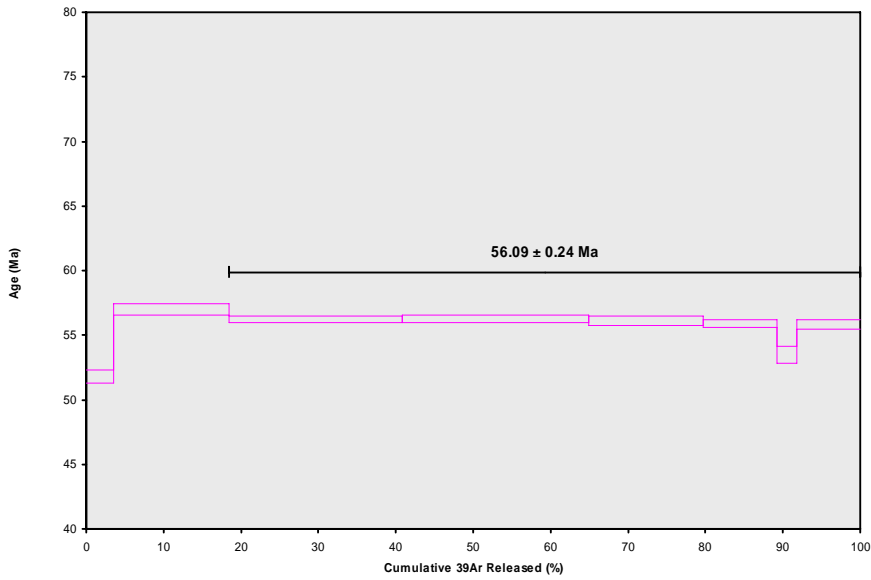
MSWD
0.04

40AR/36AR INTERCEPT
302.2 ± 11.5

Sample Info

plagioclase
Greenland
jh

IRR = OSU4A05
J = 0.0015022 ± 0.0000098



Ar-Ages in Ma

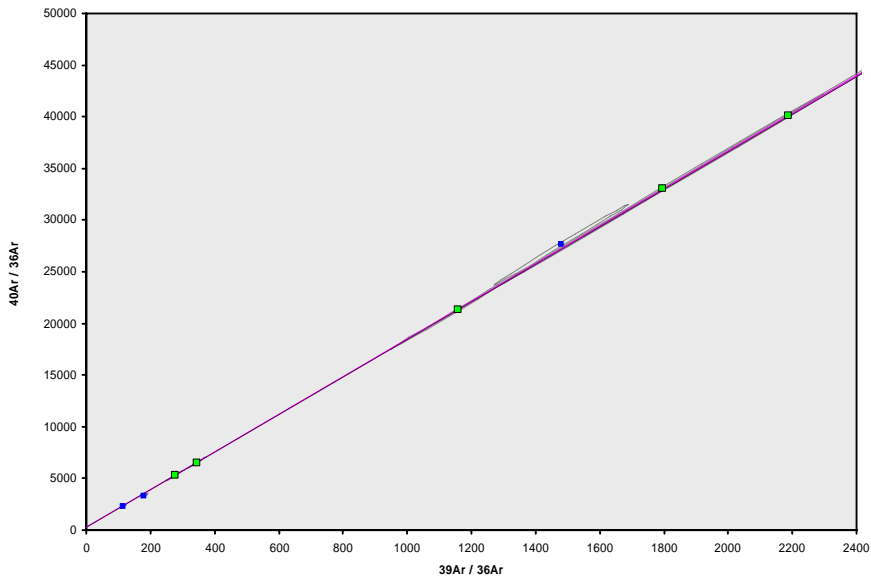
WEIGHTED PLATEAU
 56.09 ± 0.24
 TOTAL FUSION
 56.03 ± 0.21
 NORMAL ISOCHRON
 56.29 ± 0.26
 INVERSE ISOCHRON
 56.28 ± 0.26

MSWD
 1.49

Sample Info

plagioclase
 West Greenland
 rad

IRR = OSU1B03
 J = 0.0017380 ± 0.0000026



Ar-Ages in Ma

WEIGHTED PLATEAU
 56.09 ± 0.24
 TOTAL FUSION
 56.03 ± 0.21
 NORMAL ISOCHRON
 56.29 ± 0.26
 INVERSE ISOCHRON
 56.28 ± 0.26

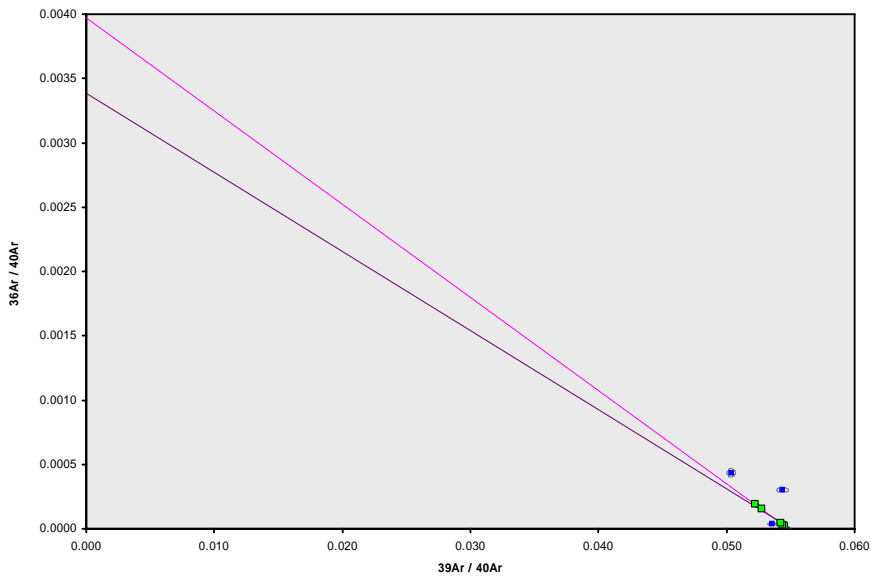
MSWD
 0.10

40AR/36AR INTERCEPT
 249.6 ± 34.4

Sample Info

plagioclase
 West Greenland
 rad

IRR = OSU1B03
 J = 0.0017380 ± 0.0000026



Ar-Ages in Ma

WEIGHTED PLATEAU
 56.09 ± 0.24
 TOTAL FUSION
 56.03 ± 0.21
 NORMAL ISOCHRON
 56.29 ± 0.26
 INVERSE ISOCHRON
 56.28 ± 0.26

MSWD
 0.09

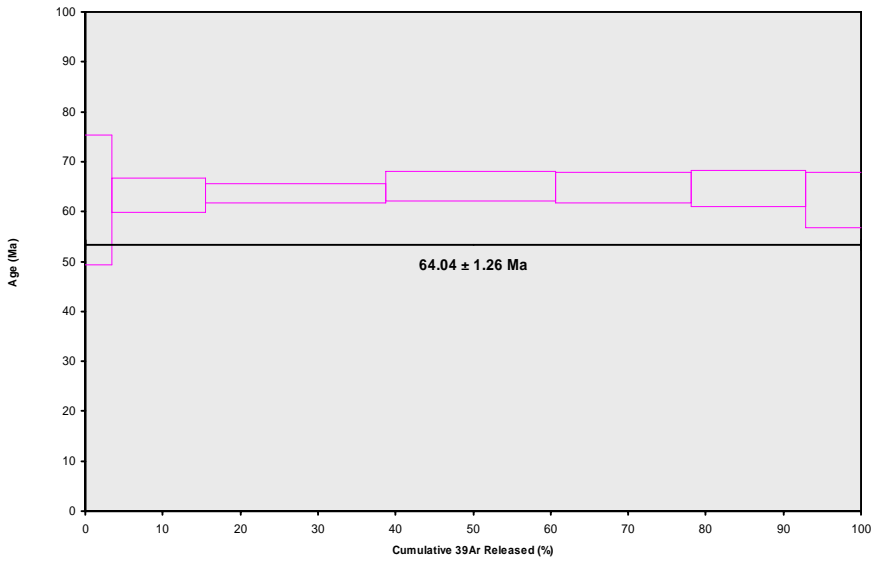
40AR/36AR INTERCEPT
 251.7 ± 34.5

Sample Info

plagioclase
 West Greenland
 rad

IRR = OSU1B03
 J = 0.0017380 ± 0.0000026

08C2007.AGE >>> 464627 >>> LARSEN PROJECT



Ar-Ages in Ma

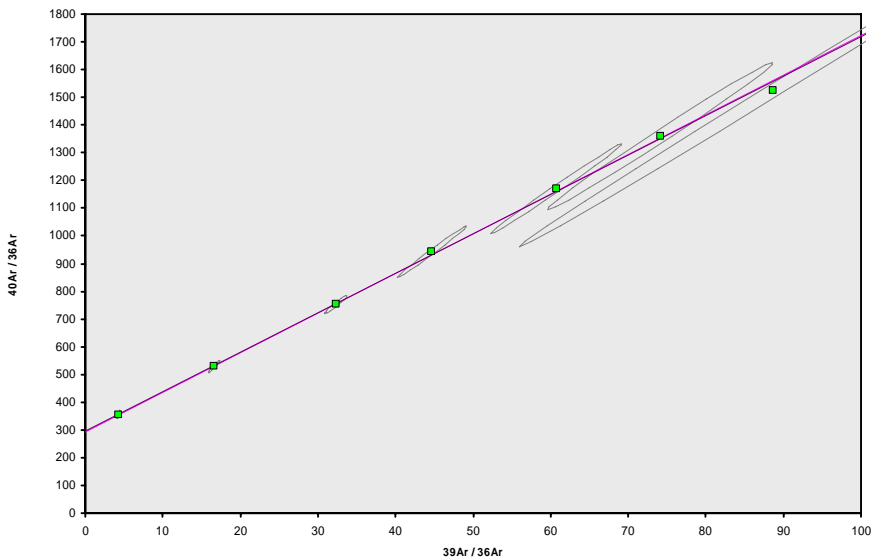
WEIGHTED PLATEAU
 64.04 ± 1.26
 TOTAL FUSION
 64.14 ± 1.38
 NORMAL ISOCHRON
 64.33 ± 1.98
 INVERSE ISOCHRON
 64.46 ± 1.97

MSWD
 0.28

Sample Info

plagioclase
 Labrador Sea
 jh
 IRR = OSU1B08
 $J = 0.0025393 \pm 0.0000084$

08C2007.AGE >>> 464627 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
 64.04 ± 1.26
 TOTAL FUSION
 64.14 ± 1.38
 NORMAL ISOCHRON
 64.33 ± 1.98
 INVERSE ISOCHRON
 64.46 ± 1.97

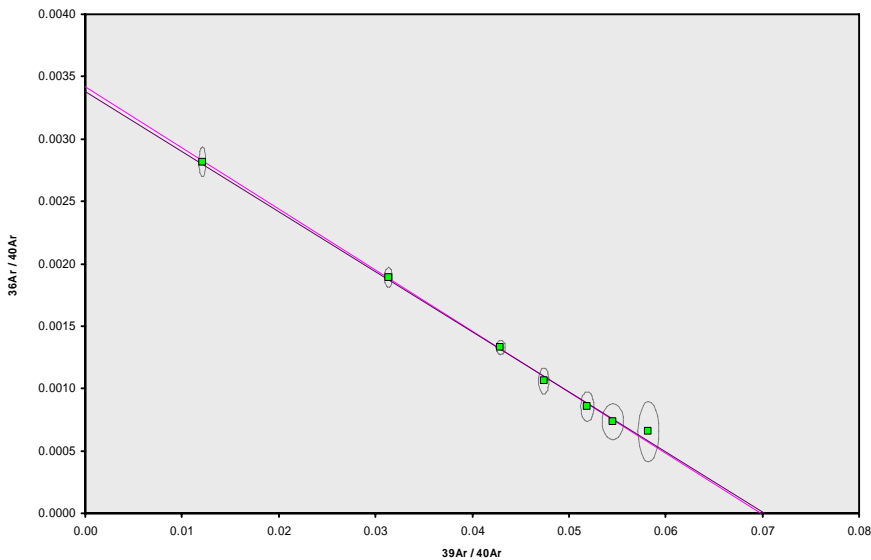
MSWD
 0.30

40AR/36AR INTERCEPT
 292.8 ± 11.5

Sample Info

plagioclase
 Labrador Sea
 jh
 IRR = OSU1B08
 $J = 0.0025393 \pm 0.0000084$

08C2007.AGE >>> 464627 >>> LARSEN PROJECT



Ar-Ages in Ma

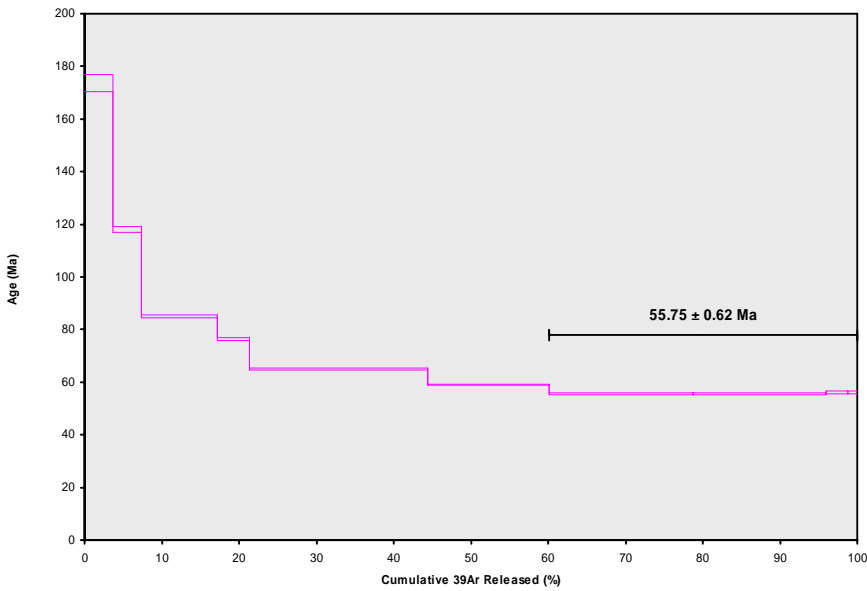
WEIGHTED PLATEAU
 64.04 ± 1.26
 TOTAL FUSION
 64.14 ± 1.38
 NORMAL ISOCHRON
 64.33 ± 1.98
 INVERSE ISOCHRON
 64.46 ± 1.97

MSWD
 0.27

40AR/36AR INTERCEPT
 292.3 ± 11.5

Sample Info

plagioclase
 Labrador Sea
 jh
 IRR = OSU1B08
 $J = 0.0025393 \pm 0.0000084$



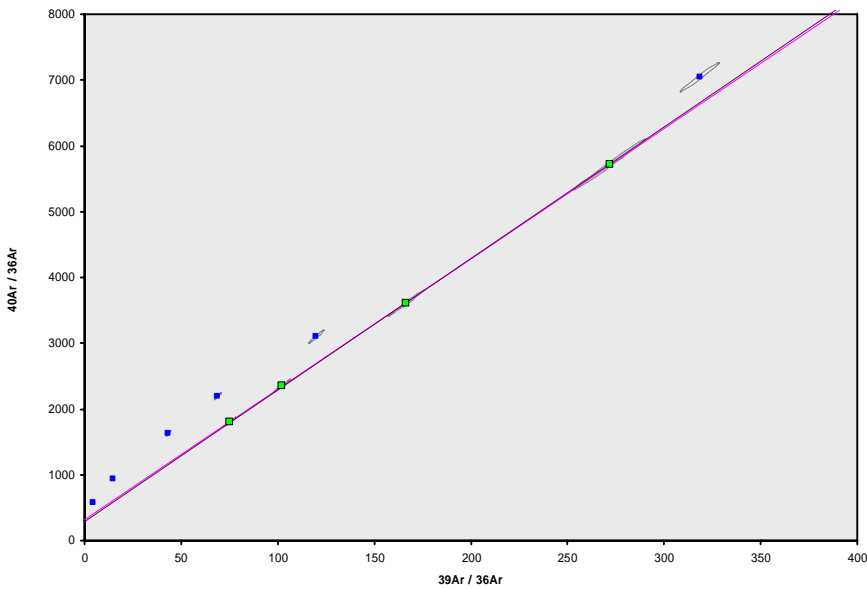
Ar-Ages in Ma

WEIGHTED PLATEAU
 55.75 ± 0.62
 TOTAL FUSION
 68.84 ± 0.70
 NORMAL ISOCHRON
 55.29 ± 0.78
 INVERSE ISOCHRON
 55.29 ± 0.77

MSWD
 1.94

Sample Info

whole rock
 Greenland
 jh
 IRR = OSU4A05
 $J = 0.0015695 \pm 0.0000077$



Ar-Ages in Ma

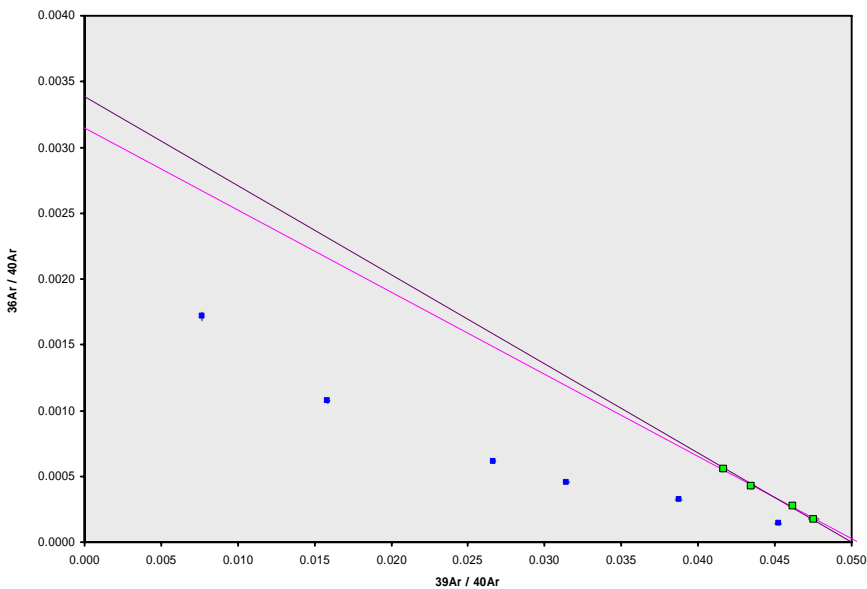
WEIGHTED PLATEAU
 55.75 ± 0.62
 TOTAL FUSION
 68.84 ± 0.70
 NORMAL ISOCHRON
 55.29 ± 0.78
 INVERSE ISOCHRON
 55.29 ± 0.77

MSWD
 1.09

40AR/36AR INTERCEPT
 317.7 ± 25.2

Sample Info

whole rock
 Greenland
 jh
 IRR = OSU4A05
 $J = 0.0015695 \pm 0.0000077$



Ar-Ages in Ma

WEIGHTED PLATEAU
 55.75 ± 0.62
 TOTAL FUSION
 68.84 ± 0.70
 NORMAL ISOCHRON
 55.29 ± 0.78
 INVERSE ISOCHRON
 55.29 ± 0.77

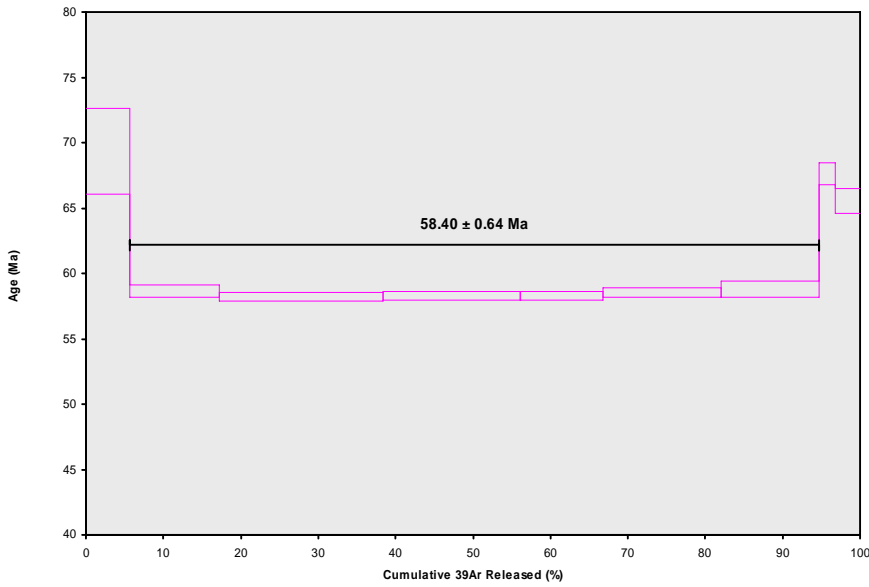
MSWD
 1.08

40AR/36AR INTERCEPT
 317.7 ± 25.1

Sample Info

whole rock
 Greenland
 jh
 IRR = OSU4A05
 $J = 0.0015695 \pm 0.0000077$

06C10.AGE >>> KØ 17090 >>> LARSEN PROJECT



Ar-Ages in Ma

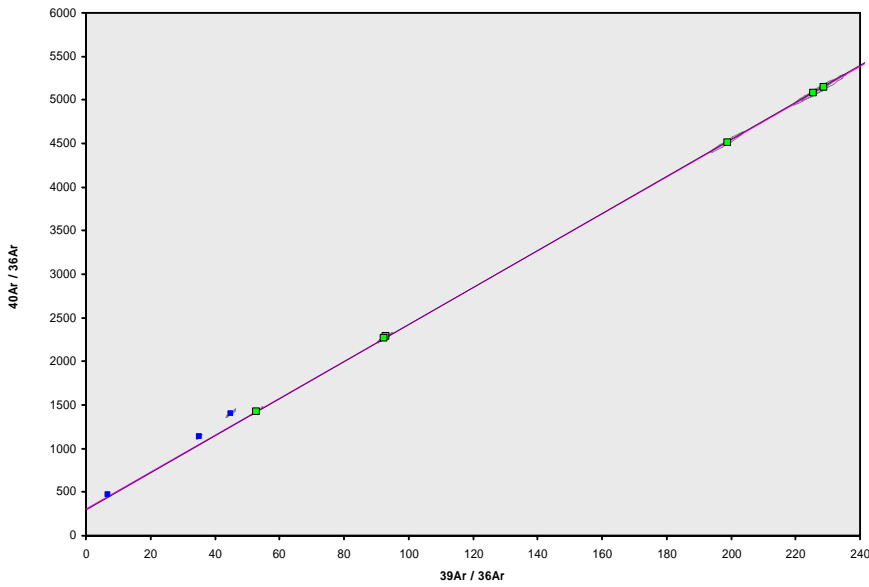
WEIGHTED PLATEAU
58.40 ± 0.64
TOTAL FUSION
59.48 ± 0.68
NORMAL ISOCRON
58.10 ± 0.69
INVERSE ISOCRON
58.10 ± 0.69

MSWD
1.06

Sample Info

plagioclase
Greenland
jh
IRR = OSU4A05
J = 0.0015475 ± 0.0000084

06C10.AGE >>> KØ 17090 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.40 ± 0.64
TOTAL FUSION
59.48 ± 0.68
NORMAL ISOCRON
58.10 ± 0.69
INVERSE ISOCRON
58.10 ± 0.69

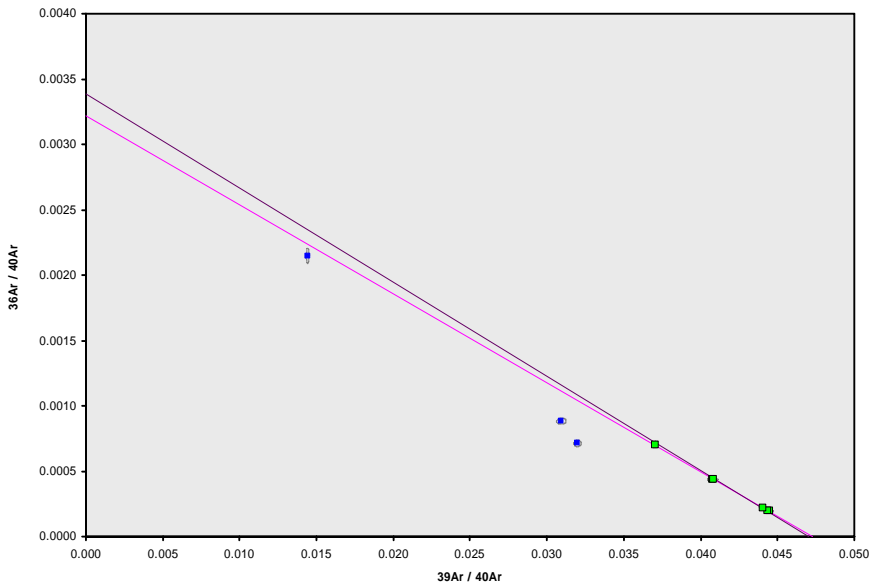
MSWD
0.13

40AR/36AR INTERCEPT
310.5 ± 14.0

Sample Info

plagioclase
Greenland
jh
IRR = OSU4A05
J = 0.0015475 ± 0.0000084

06C10.AGE >>> KØ 17090 >>> LARSEN PROJECT



Ar-Ages in Ma

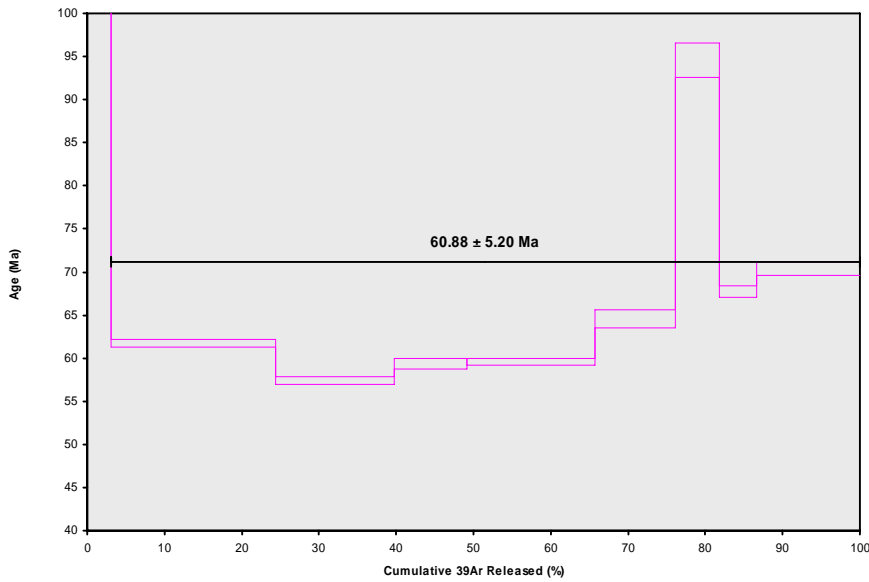
WEIGHTED PLATEAU
58.40 ± 0.64
TOTAL FUSION
59.48 ± 0.68
NORMAL ISOCRON
58.10 ± 0.69
INVERSE ISOCRON
58.10 ± 0.69

MSWD
0.13

40AR/36AR INTERCEPT
310.6 ± 14.0

Sample Info

plagioclase
Greenland
jh
IRR = OSU4A05
J = 0.0015475 ± 0.0000084



Ar-Ages in Ma

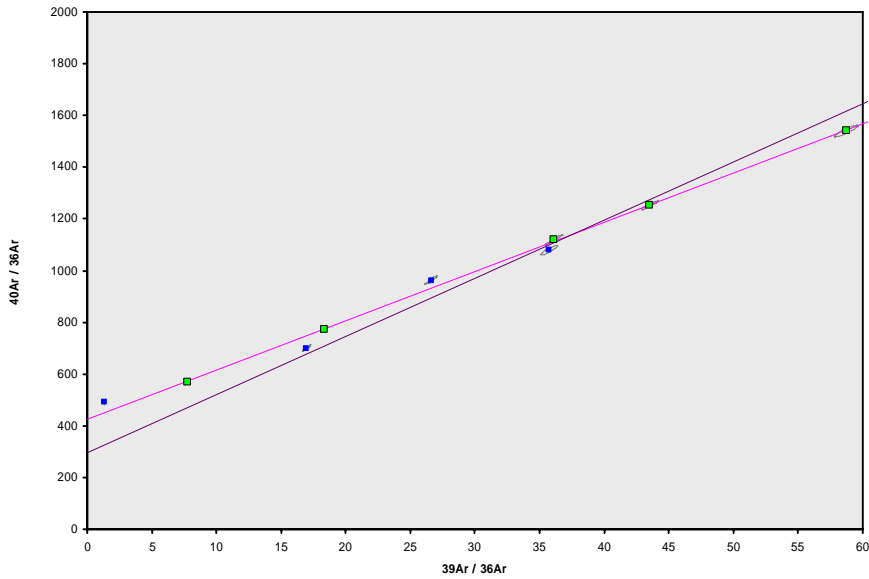
WEIGHTED PLATEAU
 60.88 ± 5.20
 TOTAL FUSION
 74.01 ± 0.98
 NORMAL ISOCHRON
 51.75 ± 0.88
 INVERSE ISOCHRON
 51.75 ± 0.88

MSWD
 537.92

Sample Info

plagioclase
 Greenland
 jh

IRR = OSU4A05
 J = 0.0015263 ± 0.0000090



Ar-Ages in Ma

WEIGHTED PLATEAU
 60.88 ± 5.20
 TOTAL FUSION
 74.01 ± 0.98
 NORMAL ISOCHRON
 51.75 ± 0.88
 INVERSE ISOCHRON
 51.75 ± 0.88

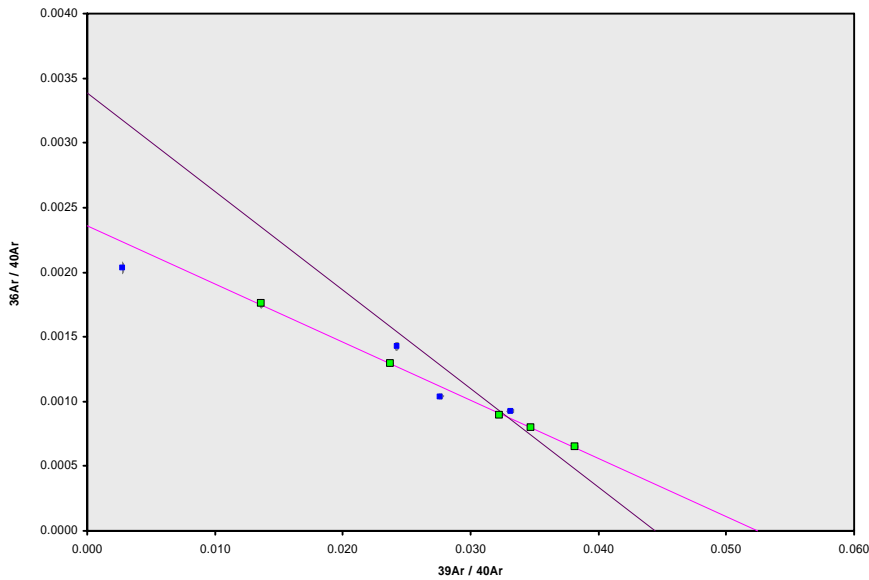
MSWD
 1.36

40AR/36AR INTERCEPT
 423.9 ± 8.3

Sample Info

plagioclase
 Greenland
 jh

IRR = OSU4A05
 J = 0.0015263 ± 0.0000090



Ar-Ages in Ma

WEIGHTED PLATEAU
 60.88 ± 5.20
 TOTAL FUSION
 74.01 ± 0.98
 NORMAL ISOCHRON
 51.75 ± 0.88
 INVERSE ISOCHRON
 51.75 ± 0.88

MSWD
 1.38

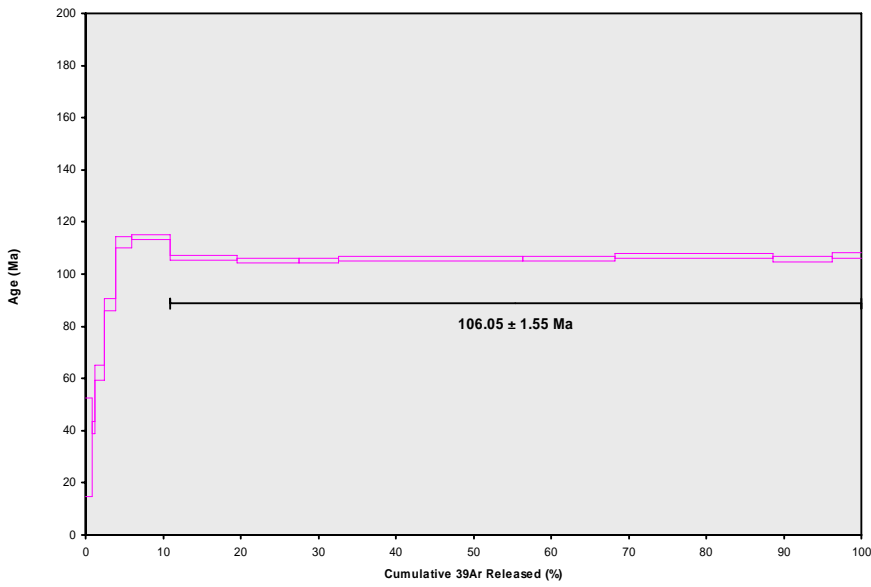
40AR/36AR INTERCEPT
 423.9 ± 8.4

Sample Info

plagioclase
 Greenland
 jh

IRR = OSU4A05
 J = 0.0015263 ± 0.0000090

05C3299.AGE >>> 120403 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
106.05 ± 1.55
TOTAL FUSION
105.09 ± 1.52
NORMAL ISOCHRON
104.15 ± 2.96
INVERSE ISOCHRON
104.17 ± 2.95

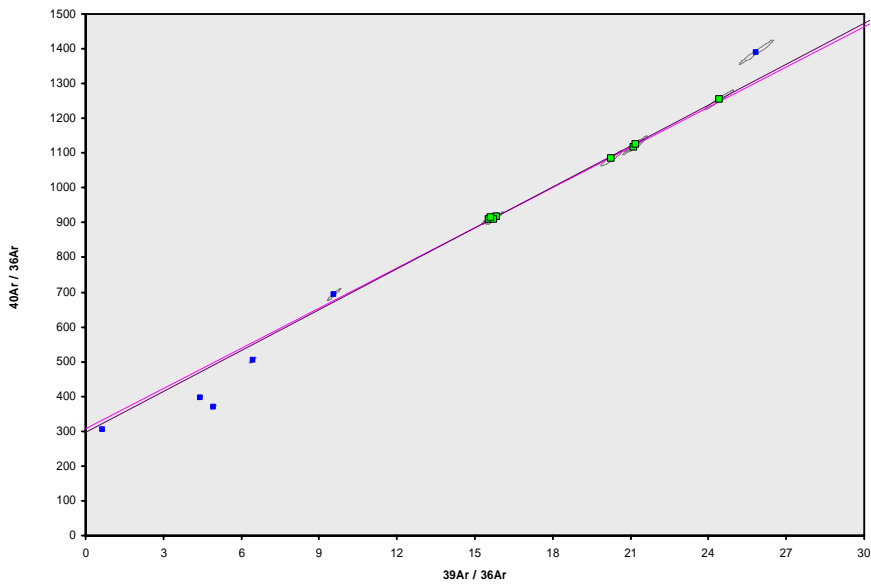
MSWD
1.84

Sample Info

whole rock
Greenland
jh

IRR = OSU5D05
J = 0.0015443 ± 0.0000111

05C3299.AGE >>> 120403 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
106.05 ± 1.55
TOTAL FUSION
105.09 ± 1.52
NORMAL ISOCHRON
104.15 ± 2.96
INVERSE ISOCHRON
104.17 ± 2.95

MSWD
1.55

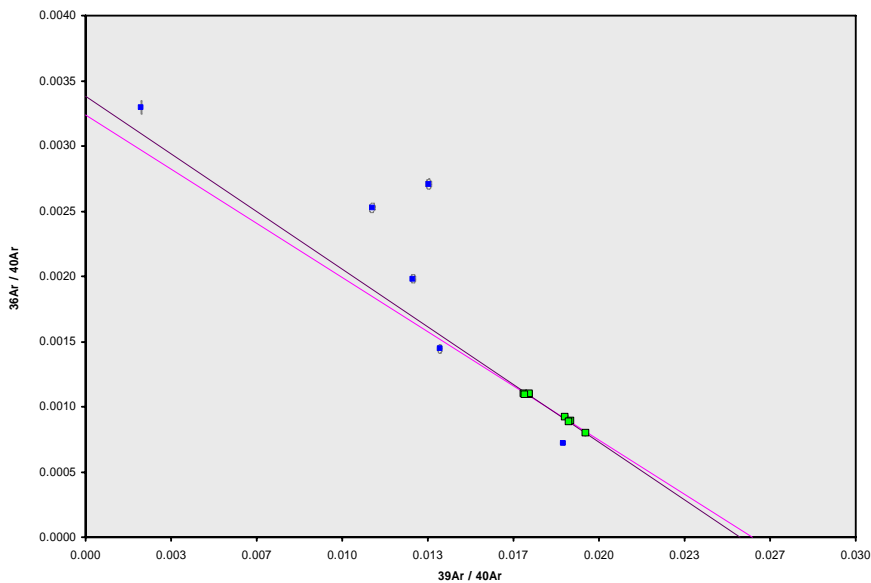
40AR/36AR INTERCEPT
308.8 ± 17.8

Sample Info

whole rock
Greenland
jh

IRR = OSU5D05
J = 0.0015443 ± 0.0000111

05C3299.AGE >>> 120403 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
106.05 ± 1.55
TOTAL FUSION
105.09 ± 1.52
NORMAL ISOCHRON
104.15 ± 2.96
INVERSE ISOCHRON
104.17 ± 2.95

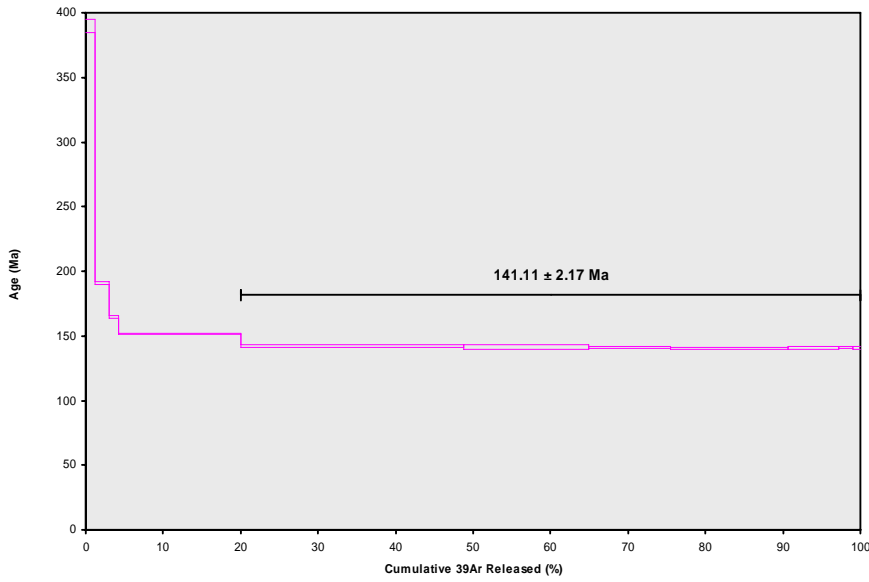
MSWD
1.55

40AR/36AR INTERCEPT
308.8 ± 17.8

Sample Info

whole rock
Greenland
jh

IRR = OSU5D05
J = 0.0015443 ± 0.0000111



Ar-Ages in Ma

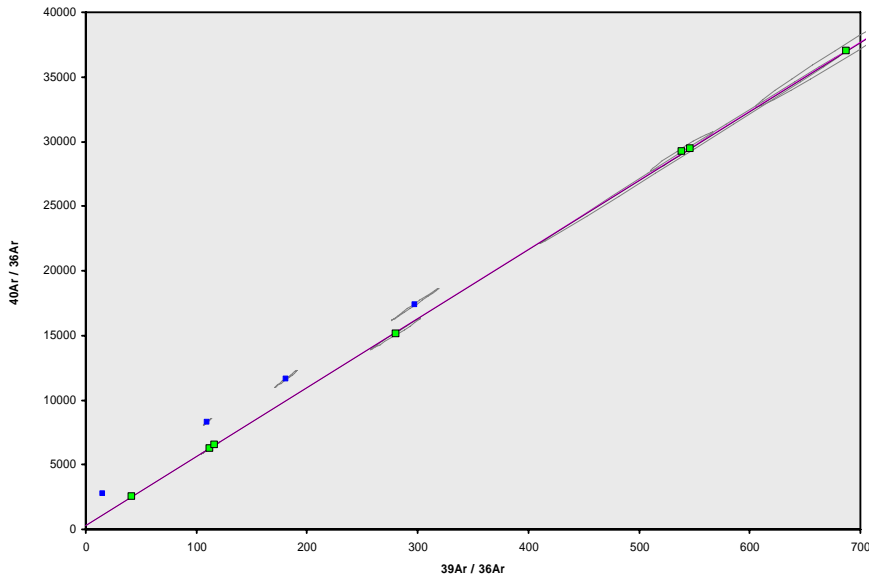
WEIGHTED PLATEAU
 141.11 ± 2.17
 TOTAL FUSION
 147.42 ± 2.27
 NORMAL ISOCHRON
 141.33 ± 2.25
 INVERSE ISOCHRON
 141.20 ± 2.24

MSWD
 1.42

Sample Info

whole rock
 Greenland
 jh

IRR = OSU5D05
 J = 0.0015265 ± 0.0000119



Ar-Ages in Ma

WEIGHTED PLATEAU
 141.11 ± 2.17
 TOTAL FUSION
 147.42 ± 2.27
 NORMAL ISOCHRON
 141.33 ± 2.25
 INVERSE ISOCHRON
 141.20 ± 2.24

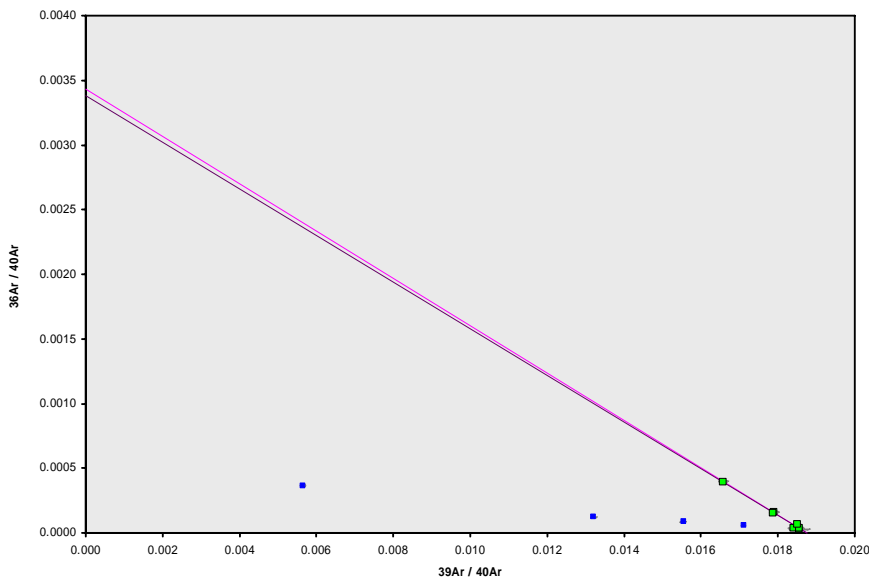
MSWD
 1.76

40AR/36AR INTERCEPT
 287.2 ± 28.8

Sample Info

whole rock
 Greenland
 jh

IRR = OSU5D05
 J = 0.0015265 ± 0.0000119



Ar-Ages in Ma

WEIGHTED PLATEAU
 141.11 ± 2.17
 TOTAL FUSION
 147.42 ± 2.27
 NORMAL ISOCHRON
 141.33 ± 2.25
 INVERSE ISOCHRON
 141.20 ± 2.24

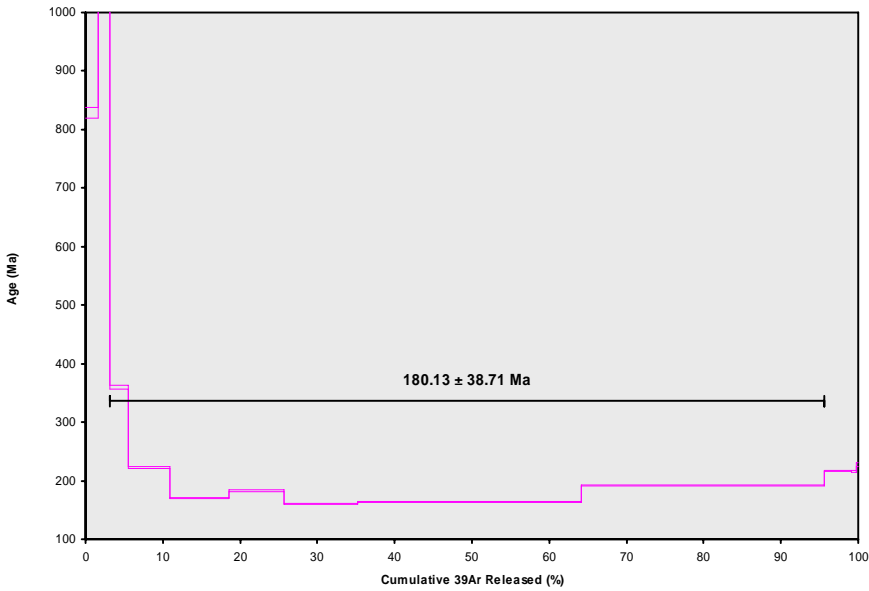
MSWD
 1.68

40AR/36AR INTERCEPT
 291.2 ± 28.0

Sample Info

whole rock
 Greenland
 jh

IRR = OSU5D05
 J = 0.0015265 ± 0.0000119



Ar-Ages in Ma

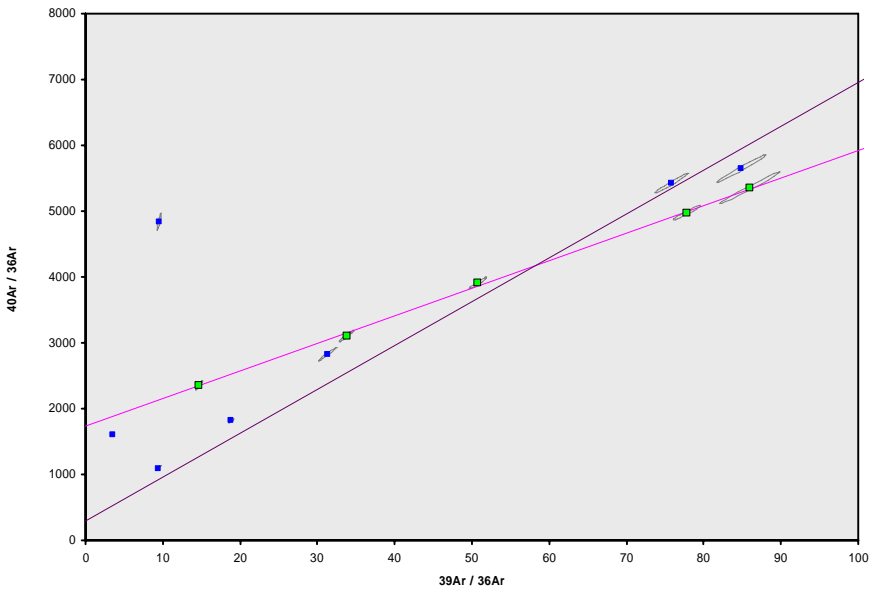
WEIGHTED PLATEAU
 180.13 ± 38.71
 TOTAL FUSION
 213.63 ± 2.72
 NORMAL ISOCHRON
 115.46 ± 4.70
 INVERSE ISOCHRON
 115.43 ± 4.72

MSWD
 5302.37

Sample Info

whole rock
 Greenland
 jh

IRR = OSU5D05
 $J = 0.0015762 \pm 0.0000104$



Ar-Ages in Ma

WEIGHTED PLATEAU
 180.13 ± 38.71
 TOTAL FUSION
 213.63 ± 2.72
 NORMAL ISOCHRON
 115.46 ± 4.70
 INVERSE ISOCHRON
 115.43 ± 4.72

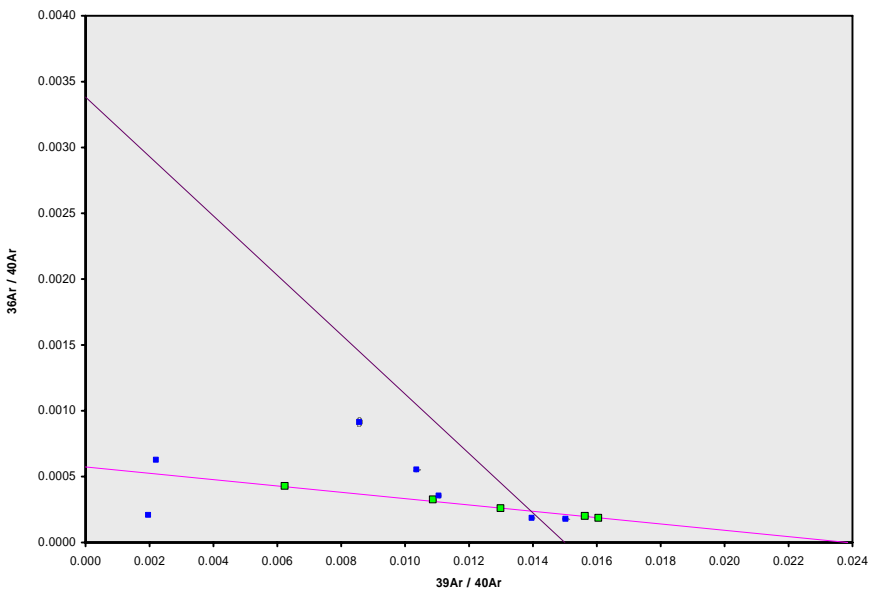
MSWD
 3.44

40AR/36AR INTERCEPT
 1733.8 ± 93.3

Sample Info

whole rock
 Greenland
 jh

IRR = OSU5D05
 $J = 0.0015762 \pm 0.0000104$



Ar-Ages in Ma

WEIGHTED PLATEAU
 180.13 ± 38.71
 TOTAL FUSION
 213.63 ± 2.72
 NORMAL ISOCHRON
 115.46 ± 4.70
 INVERSE ISOCHRON
 115.43 ± 4.72

MSWD
 3.44

40AR/36AR INTERCEPT
 1736.3 ± 93.9

Sample Info

whole rock
 Greenland
 jh

IRR = OSU5D05
 $J = 0.0015762 \pm 0.0000104$