Geological Magazine

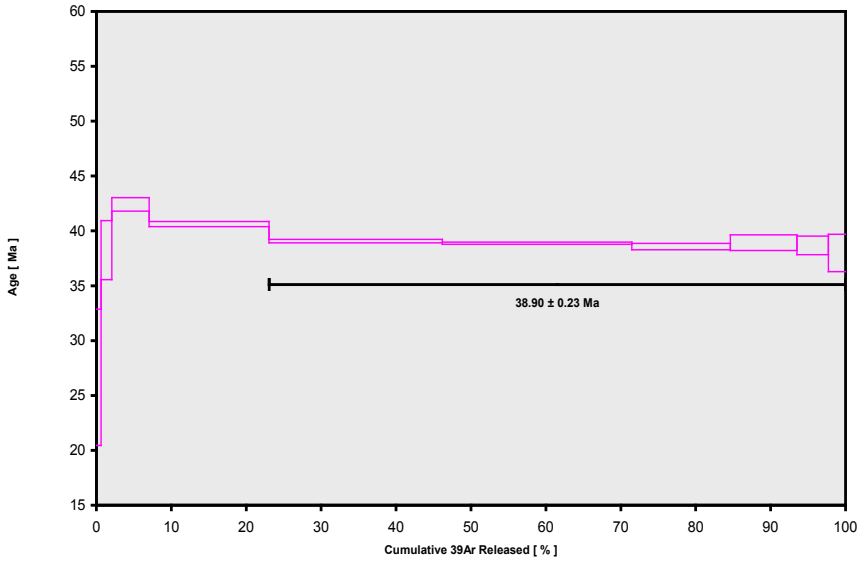
Age of Tertiary volcanic rocks on the West Greenland continental margin: volcanic evolution and event correlation to other parts of the North Atlantic Igneous Province

By L.M. Larsen, A.K. Pedersen, C. Tegner, R.A. Duncan, N. Hald & J.G. Larsen

Supplementary Material 3: West Greenland ^{40}Ar-^{39}Ar age determinations: Plateau and isochron plots (1 page per sample); K/Ca plots at the end.

Sample 113482 (2013 analysis), lava flow, Talerua Member, Hareøen

13C0199.AGE >>> 113482 GM LARSEN 2B16-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
38.90 ± 0.23
TOTAL FUSION
39.23 ± 0.23
NORMAL ISOCHRON
38.89 ± 0.29
INVERSE ISOCHRON
38.90 ± 0.28

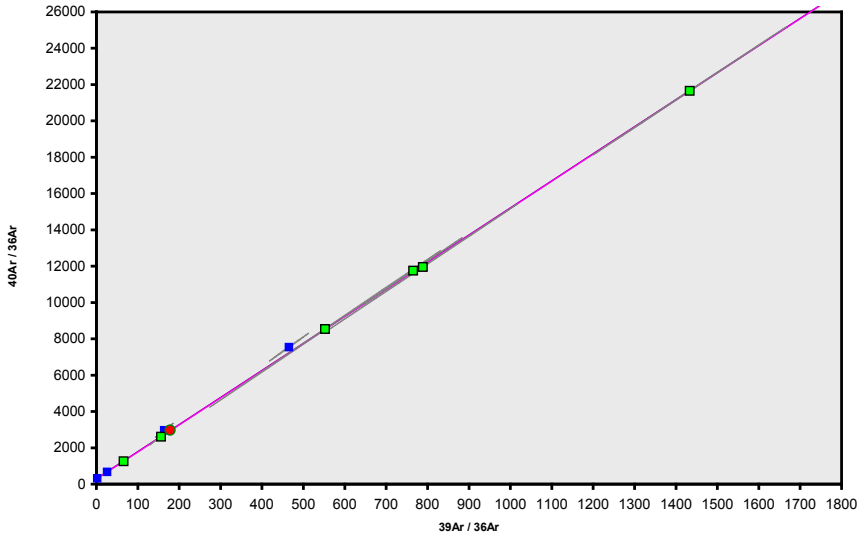
MSWD (PROBABILITY)
2.23 (5%)

Sample Info

gm
Greenland
DH

IRR = OSU2B12

13C0199.AGE >>> 113482 GM LARSEN 2B16-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
38.90 ± 0.23
TOTAL FUSION
39.23 ± 0.23
NORMAL ISOCHRON
38.89 ± 0.29
INVERSE ISOCHRON
38.90 ± 0.28

MSWD (PROBABILITY)
3.25 (1%)

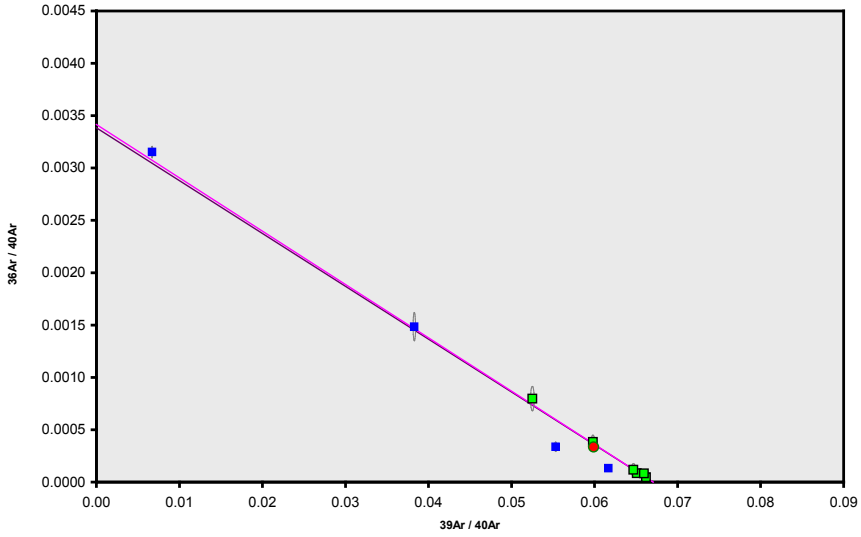
40AR/36AR INTERCEPT

Sample Info

gm
Greenland
DH

IRR = OSU2B12

13C0199.AGE >>> 113482 GM LARSEN 2B16-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
38.90 ± 0.23
TOTAL FUSION
39.23 ± 0.23
NORMAL ISOCHRON
38.89 ± 0.29
INVERSE ISOCHRON
38.90 ± 0.28

MSWD (PROBABILITY)
2.78 (3%)

SPREADING FACTOR

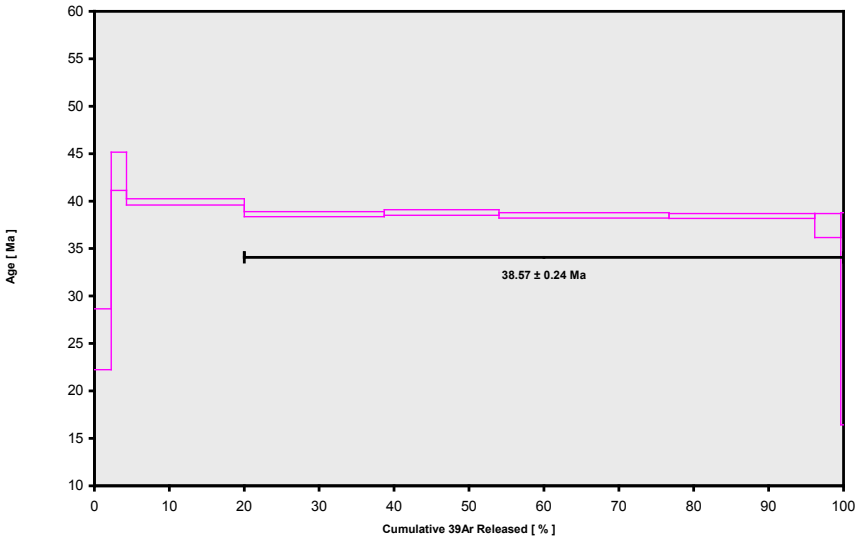
Sample Info

gm
Greenland
DH

IRR = OSU2B12

Sample 113482 (2004 analysis), lava flow, Talerua Member, Hareøen

04C2815.AGE >>> GGU113482 2C17-04 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
38.57 ± 0.24
TOTAL FUSION
38.51 ± 0.20
NORMAL ISOCHRON
38.75 ± 0.28
INVERSE ISOCHRON
38.77 ± 0.28

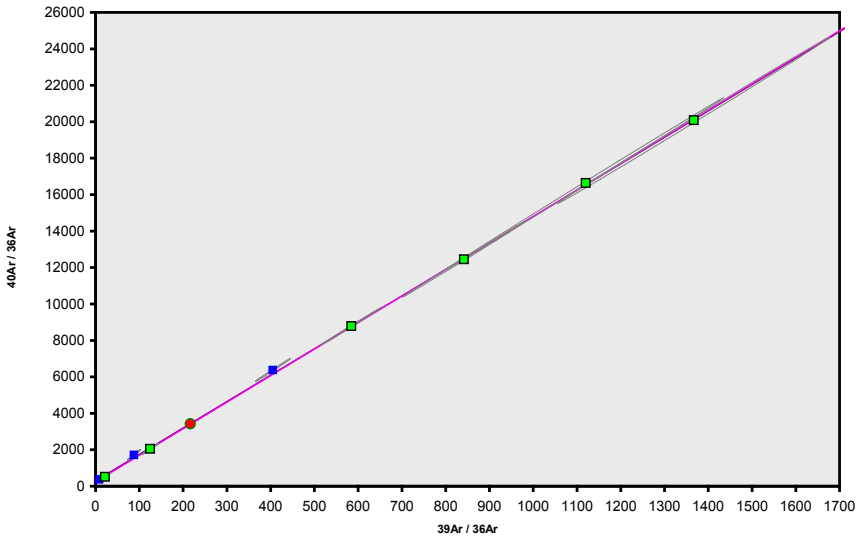
MSWD (PROBABILITY)
2.27 (4%)

Sample Info

gm
East Greenland
Dan Miggins

IRR = OSU2C04

04C2815.AGE >>> GGU113482 2C17-04 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
38.57 ± 0.24
TOTAL FUSION
38.51 ± 0.20
NORMAL ISOCHRON
38.75 ± 0.28
INVERSE ISOCHRON
38.77 ± 0.28

MSWD (PROBABILITY)
1.51 (20%)

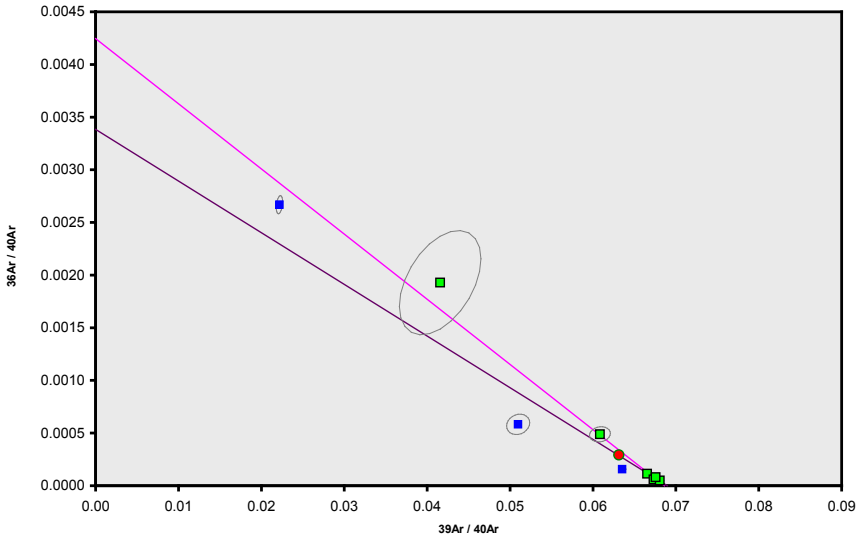
40AR/36AR INTERCEPT

Sample Info

gm
East Greenland
Dan Miggins

IRR = OSU2C04

04C2815.AGE >>> GGU113482 2C17-04 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
38.57 ± 0.24
TOTAL FUSION
38.51 ± 0.20
NORMAL ISOCHRON
38.75 ± 0.28
INVERSE ISOCHRON
38.77 ± 0.28

MSWD (PROBABILITY)
1.57 (18%)

SPREADING FACTOR

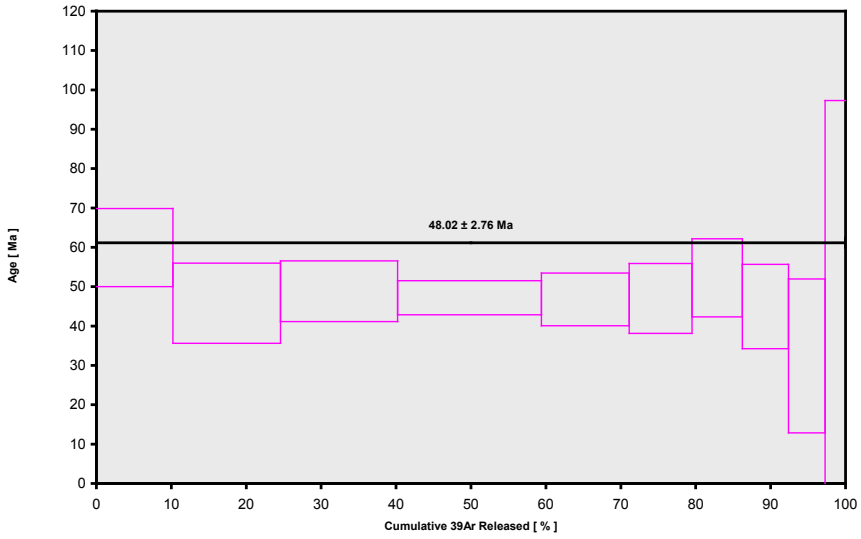
Sample Info

gm
East Greenland
Dan Miggins

IRR = OSU2C04

Sample 135129, dyke, westernmost Nuussuaq

13C0066.AGE >>> 135129 PLAG 2B5-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
48.02 ± 2.76
TOTAL FUSION
47.91 ± 3.22
NORMAL ISOCHRON
46.54 ± 2.88
INVERSE ISOCHRON
46.77 ± 2.84

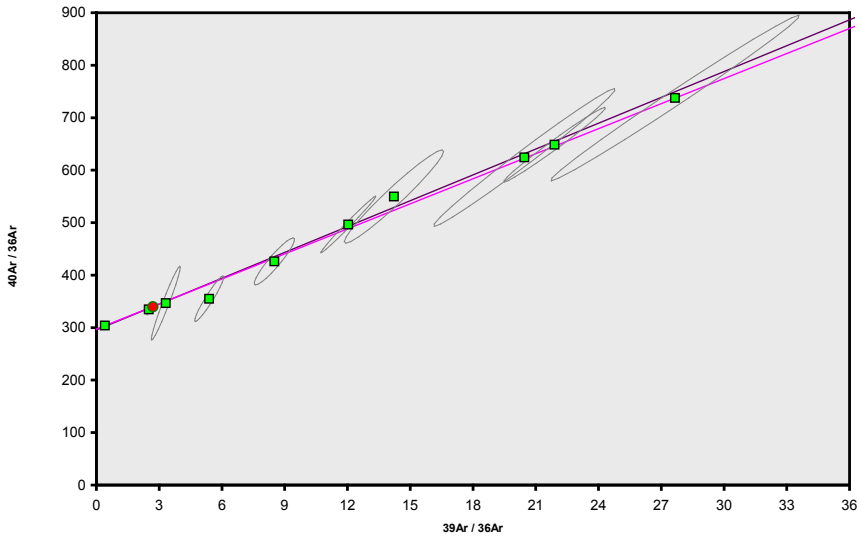
MSWD (PROBABILITY)
1.10 (36%)

Sample Info

plag
Greenland
rd

IRR = OSU2B12

13C0066.AGE >>> 135129 PLAG 2B5-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
48.02 ± 2.76
TOTAL FUSION
47.91 ± 3.22
NORMAL ISOCHRON
46.54 ± 2.88
INVERSE ISOCHRON
46.77 ± 2.84

MSWD (PROBABILITY)
0.58 (80%)

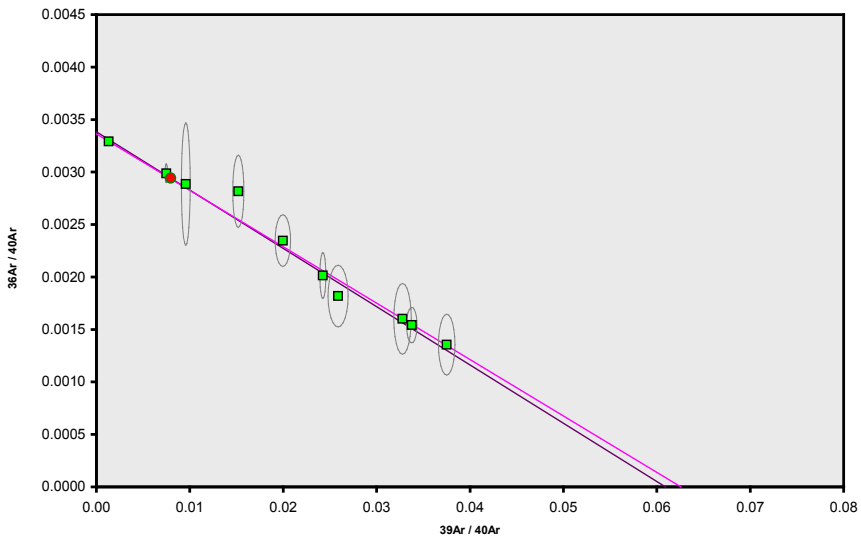
40AR/36AR

Sample Info

plag
Greenland
rd

IRR = OSU2B12

13C0066.AGE >>> 135129 PLAG 2B5-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
48.02 ± 2.76
TOTAL FUSION
47.91 ± 3.22
NORMAL ISOCHRON
46.54 ± 2.88
INVERSE ISOCHRON
46.77 ± 2.84

MSWD (PROBABILITY)
0.53 (83%)

SPREADING FACTOR

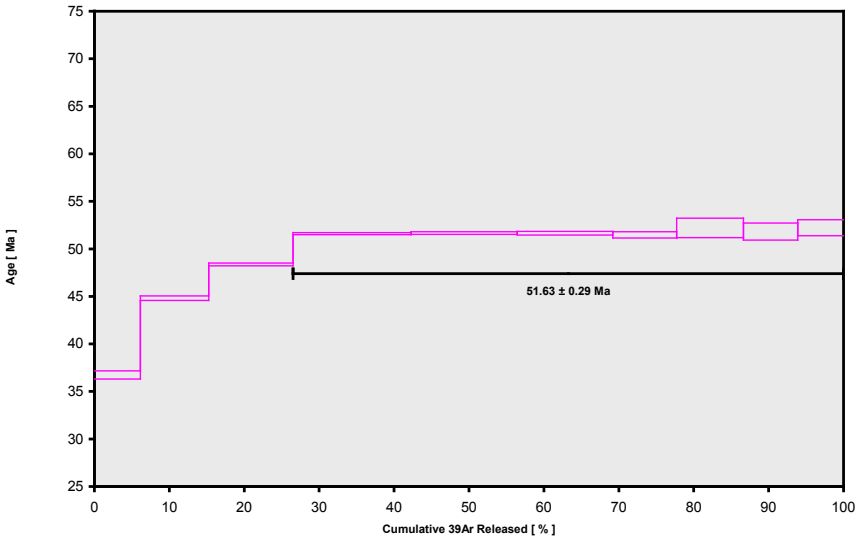
Sample Info

plag
Greenland
rd

IRR = OSU2B12

Sample 402581, pegmatite in top of Qaarsut sill, northern Nuussuaq

13C0079.AGE >>> 402581 PLAG 2B9-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
51.63 ± 0.29
TOTAL FUSION
49.82 ± 0.30
NORMAL ISOCHRON
51.49 ± 0.42
INVERSE ISOCHRON
51.49 ± 0.42

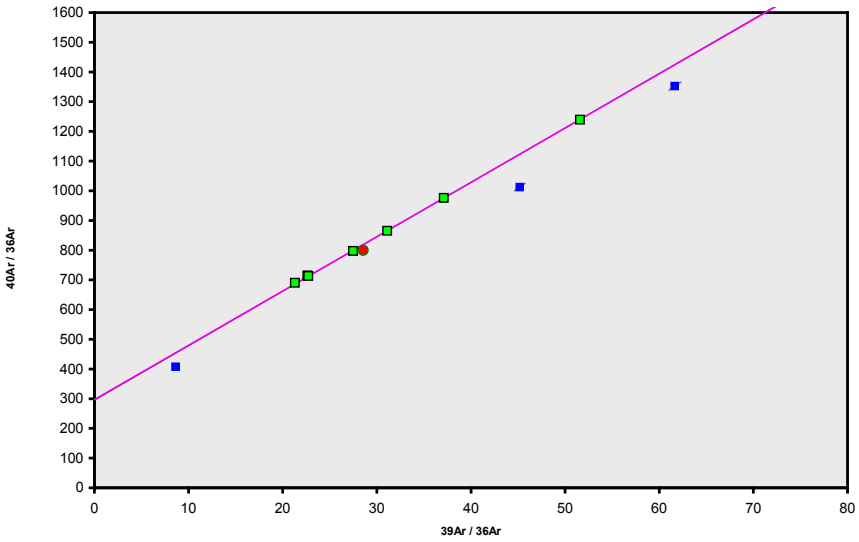
MSWD (PROBABILITY)
0.83 (54%)

Sample Info

plag
Greenland
rd

IRR = OSU2B12

13C0079.AGE >>> 402581 PLAG 2B9-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
51.63 ± 0.29
TOTAL FUSION
49.82 ± 0.30
NORMAL ISOCHRON
51.49 ± 0.42
INVERSE ISOCHRON
51.49 ± 0.42

MSWD (PROBABILITY)
0.85 (52%)

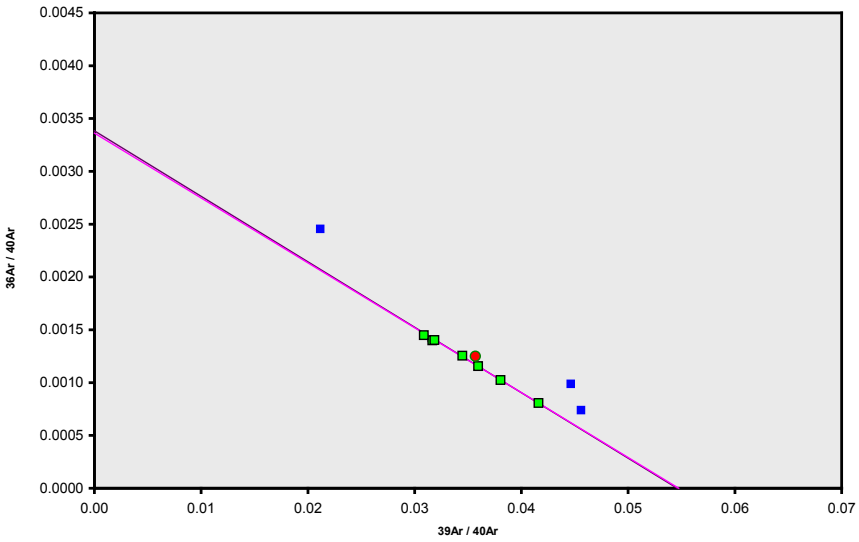
40AR/36AR INTERCEPT

Sample Info

plag
Greenland
rd

IRR = OSU2B12

13C0079.AGE >>> 402581 PLAG 2B9-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
51.63 ± 0.29
TOTAL FUSION
49.82 ± 0.30
NORMAL ISOCHRON
51.49 ± 0.42
INVERSE ISOCHRON
51.49 ± 0.42

MSWD (PROBABILITY)
0.85 (52%)

SPREADING FACTOR

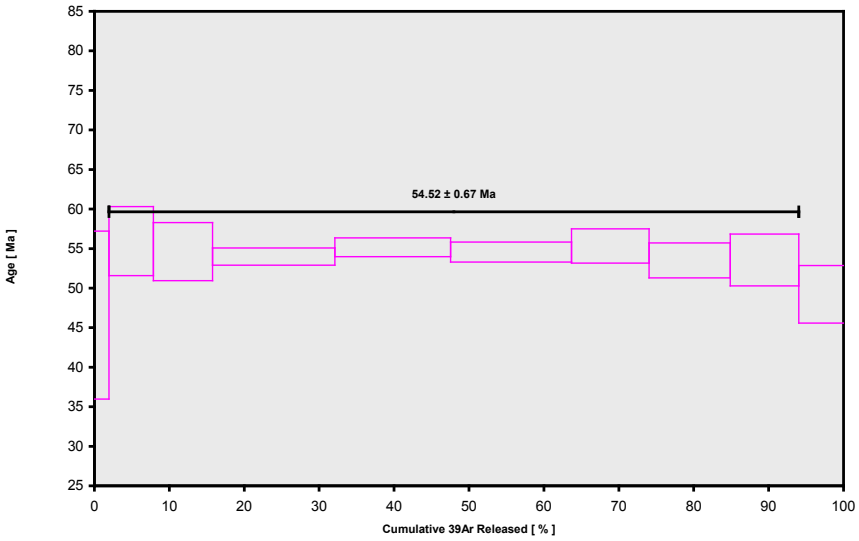
Sample Info

plag
Greenland
rd

IRR = OSU2B12

Sample 489154, alkaline sill near Qaarsut, northern Nuussuaq

13C0039.AGE >>> 489154 PLAG 2B6-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.52 ± 0.67
TOTAL FUSION
54.05 ± 0.80
NORMAL ISOCHRON
54.45 ± 0.74
INVERSE ISOCHRON
54.60 ± 0.72

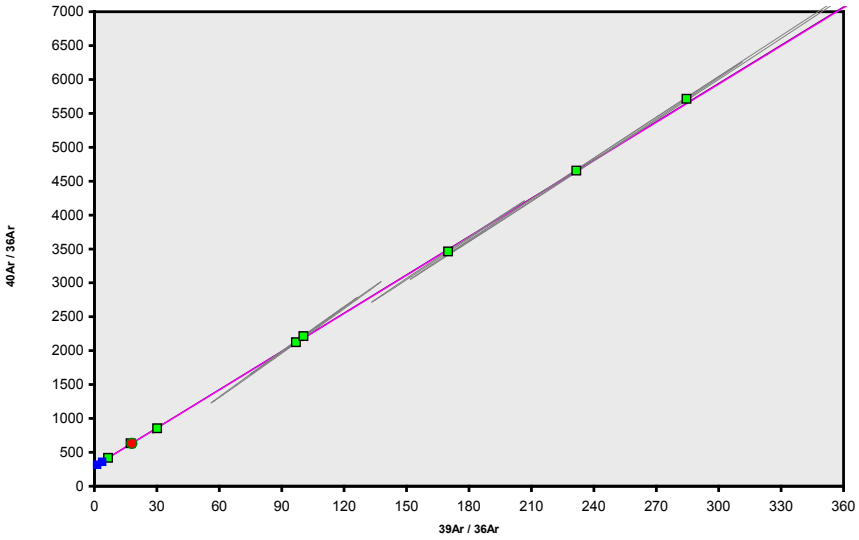
MSWD (PROBABILITY)
0.61 (75%)

Sample Info

plag
Greenland
rd

IRR = OSU2B12

13C0039.AGE >>> 489154 PLAG 2B6-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.52 ± 0.67
TOTAL FUSION
54.05 ± 0.80
NORMAL ISOCHRON
54.45 ± 0.74
INVERSE ISOCHRON
54.60 ± 0.72

MSWD (PROBABILITY)
0.59 (74%)

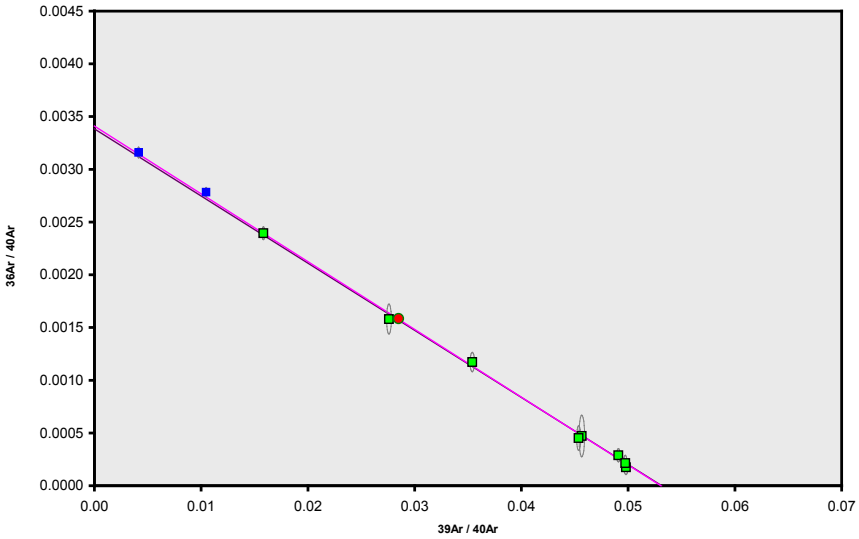
40AR/36AR INTERCEPT

Sample Info

plag
Greenland
rd

IRR = OSU2B12

13C0039.AGE >>> 489154 PLAG 2B6-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.52 ± 0.67
TOTAL FUSION
54.05 ± 0.80
NORMAL ISOCHRON
54.45 ± 0.74
INVERSE ISOCHRON
54.60 ± 0.72

MSWD (PROBABILITY)
0.65 (69%)

SPREADING FACTOR

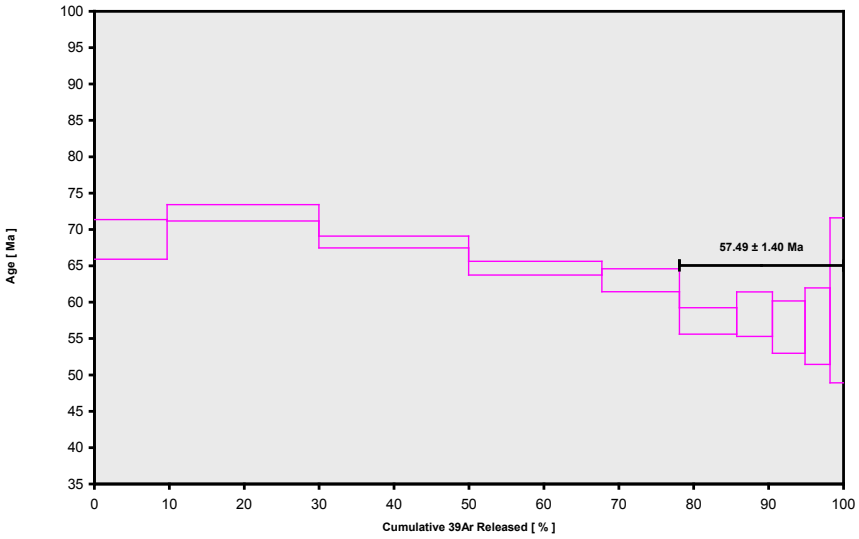
Sample Info

plag
Greenland
rd

IRR = OSU2B12

Sample 332904, dyke, northern Disko

13C0185.AGE >>> 332904 GM LARSEN 2B15-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.49 ± 1.40
TOTAL FUSION
65.61 ± 0.67
NORMAL ISOCHRON
57.43 ± 2.60
INVERSE ISOCHRON
57.43 ± 2.59

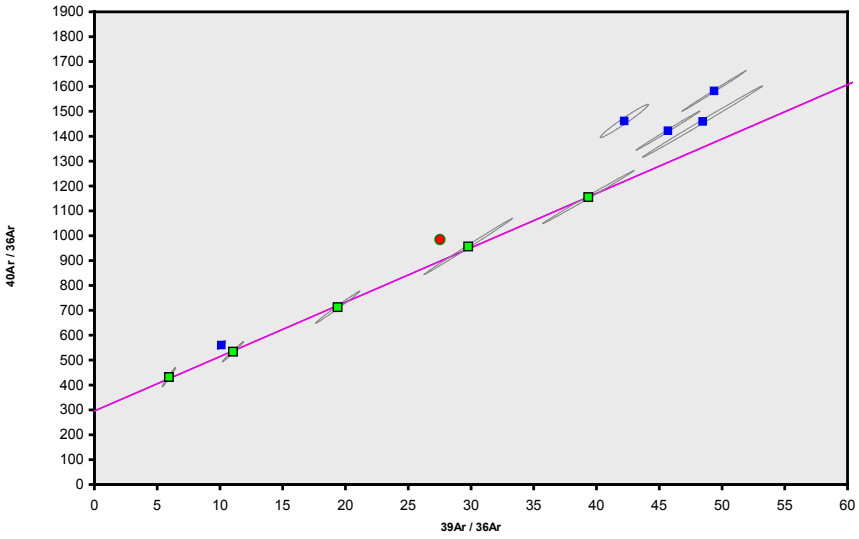
MSWD (PROBABILITY)
0.23 (92%)

Sample Info

gm
Greenland
DH

IRR = OSU2B12

13C0185.AGE >>> 332904 GM LARSEN 2B15-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.49 ± 1.40
TOTAL FUSION
65.61 ± 0.67
NORMAL ISOCHRON
57.43 ± 2.60
INVERSE ISOCHRON
57.43 ± 2.59

MSWD (PROBABILITY)
0.30 (83%)

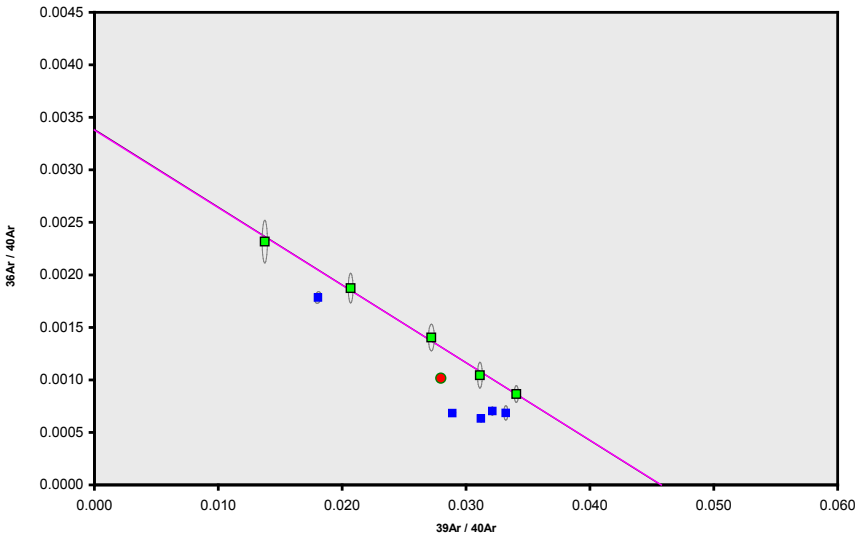
40AR/36AR INTERCEPT

Sample Info

gm
Greenland
DH

IRR = OSU2B12

13C0185.AGE >>> 332904 GM LARSEN 2B15-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.49 ± 1.40
TOTAL FUSION
65.61 ± 0.67
NORMAL ISOCHRON
57.43 ± 2.60
INVERSE ISOCHRON
57.43 ± 2.59

MSWD (PROBABILITY)
0.30 (82%)

SPREADING FACTOR

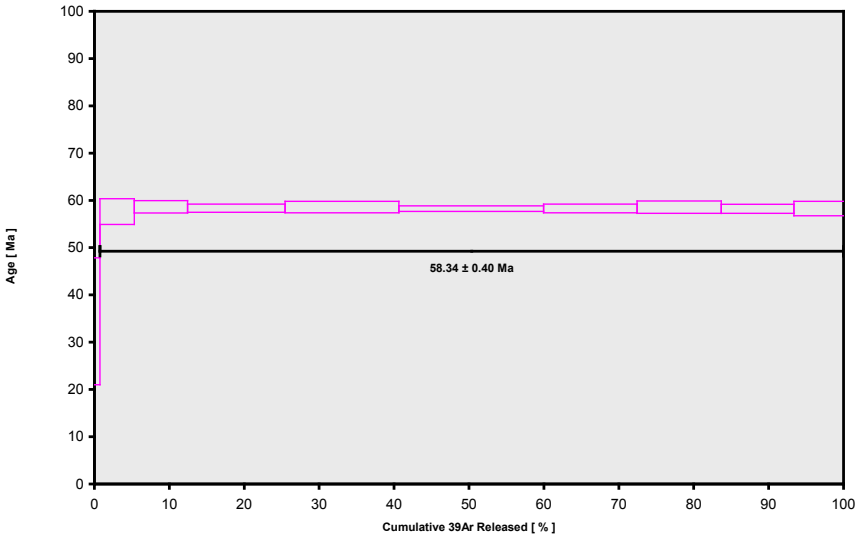
Sample Info

gm
Greenland
DH

IRR = OSU2B12

Sample 318800, dyke, eastern Disko

08C1924.AGE >>> 318800 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.34 ± 0.40
TOTAL FUSION
58.18 ± 0.44
NORMAL ISOCHRON
58.41 ± 0.85
INVERSE ISOCHRON
58.41 ± 0.86

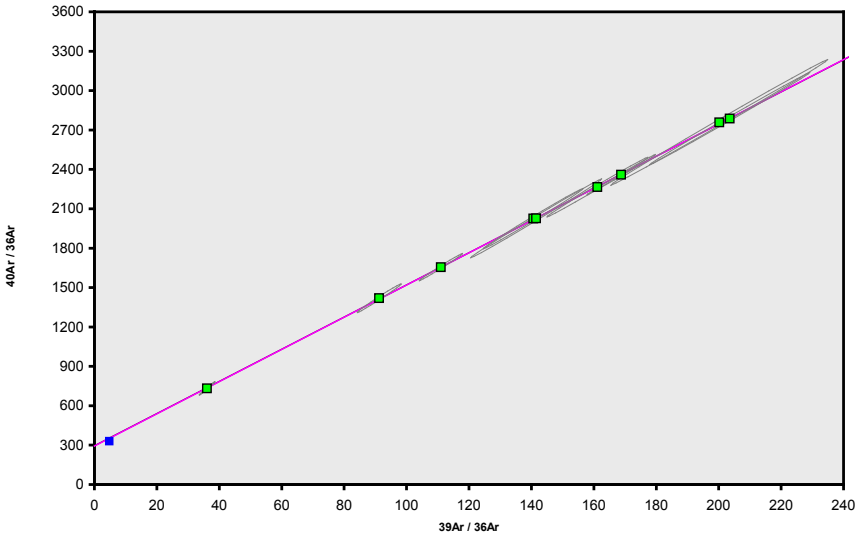
MSWD (PROBABILITY)
0.12 (100%)

Sample Info

plagioclase
Labrador Sea
jh

IRR = OSU1B08

08C1924.AGE >>> 318800 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.34 ± 0.40
TOTAL FUSION
58.18 ± 0.44
NORMAL ISOCHRON
58.41 ± 0.85
INVERSE ISOCHRON
58.41 ± 0.86

MSWD (PROBABILITY)
0.13 (100%)

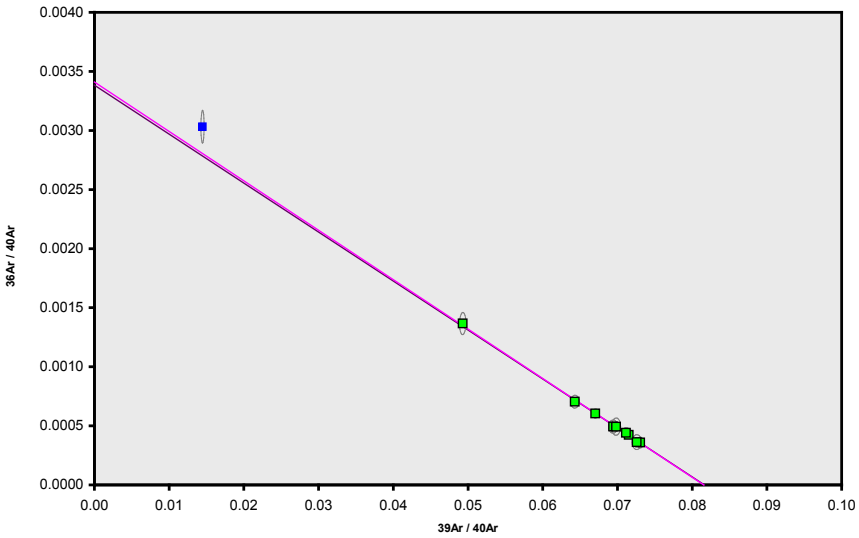
40AR/36AR INTERCEPT

Sample Info

plagioclase
Labrador Sea
jh

IRR = OSU1B08

08C1924.AGE >>> 318800 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.34 ± 0.40
TOTAL FUSION
58.18 ± 0.44
NORMAL ISOCHRON
58.41 ± 0.85
INVERSE ISOCHRON
58.41 ± 0.86

MSWD (PROBABILITY)
0.13 (100%)

SPREADING FACTOR

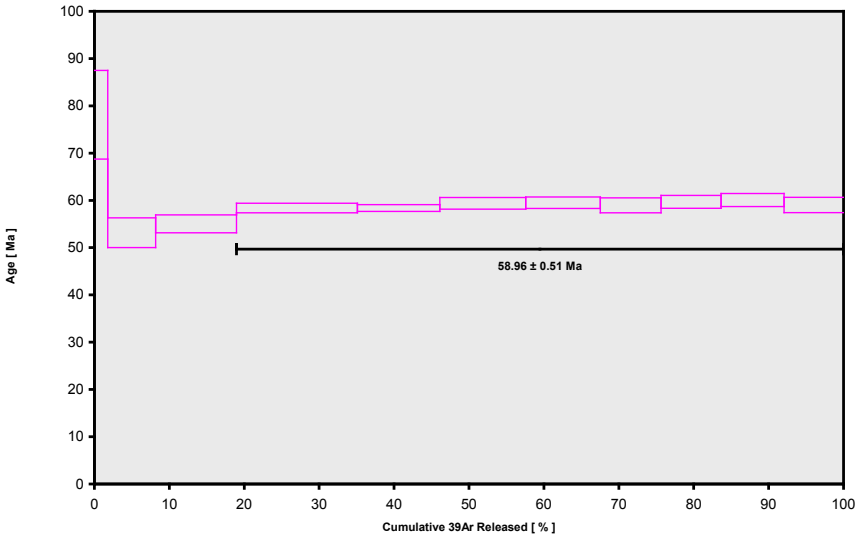
Sample Info

plagioclase
Labrador Sea
jh

IRR = OSU1B08

Sample Dana-06-148D-01, gabbro dredged south-east of Disko

08C1936.AGE >>> DANA-06-148D-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.96 ± 0.51
TOTAL FUSION
58.62 ± 0.53
NORMAL ISOCHRON
58.45 ± 1.64
INVERSE ISOCHRON
58.47 ± 1.65

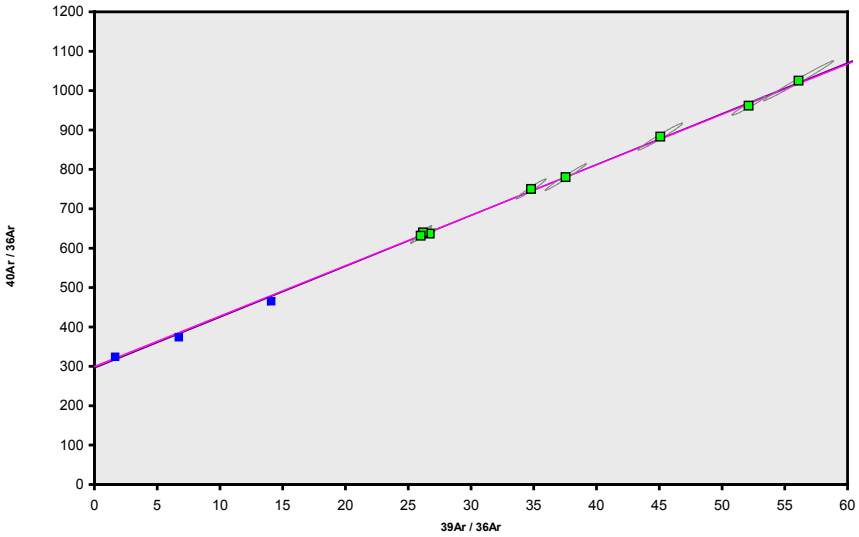
MSWD (PROBABILITY)
1.27 (26%)

Sample Info

plagioclase
Labrador Sea
jh

IRR = OSU1B08

08C1936.AGE >>> DANA-06-148D-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.96 ± 0.51
TOTAL FUSION
58.62 ± 0.53
NORMAL ISOCHRON
58.45 ± 1.64
INVERSE ISOCHRON
58.47 ± 1.65

MSWD (PROBABILITY)
1.38 (22%)

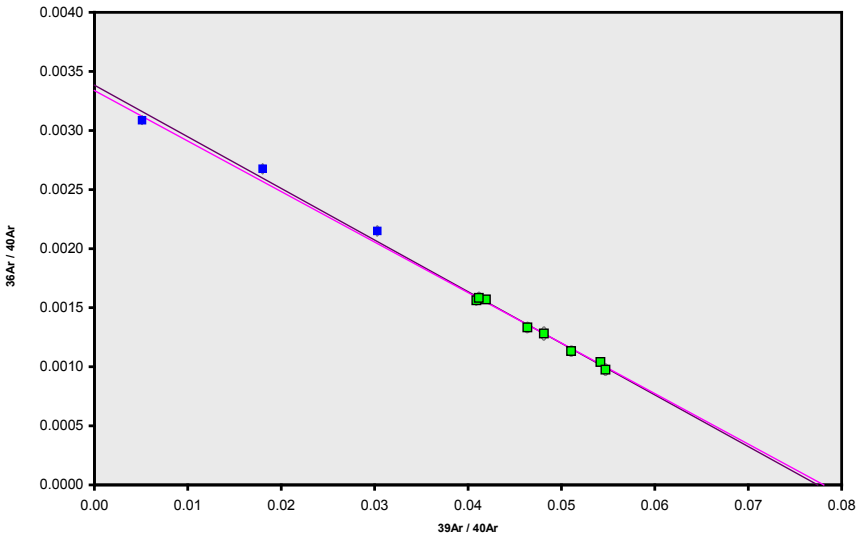
40AR/36AR INTERCEPT

Sample Info

plagioclase
Labrador Sea
jh

IRR = OSU1B08

08C1936.AGE >>> DANA-06-148D-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.96 ± 0.51
TOTAL FUSION
58.62 ± 0.53
NORMAL ISOCHRON
58.45 ± 1.64
INVERSE ISOCHRON
58.47 ± 1.65

MSWD (PROBABILITY)
1.39 (21%)

SPREADING FACTOR

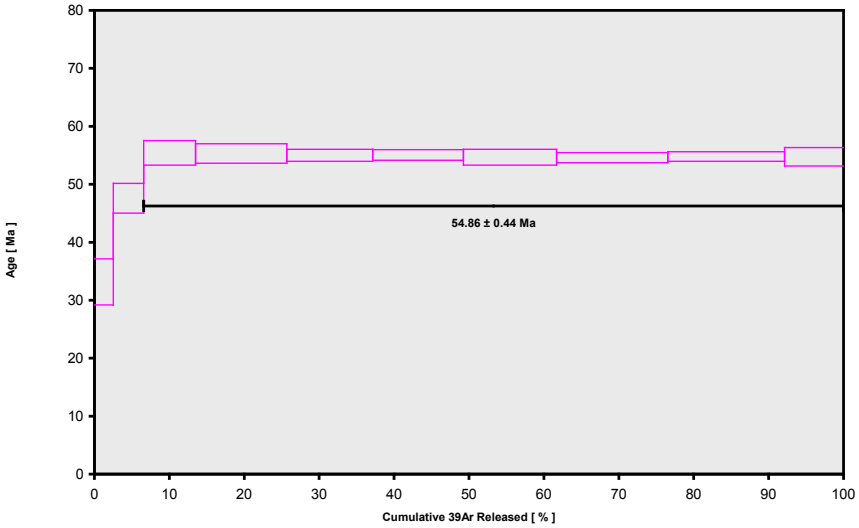
Sample Info

plagioclase
Labrador Sea
jh

IRR = OSU1B08

Sample 251372, lava flow, Naqerloq Fm, Svartenhuk Halvø

11C287.AGE >>> 251372 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.86 ± 0.44
TOTAL FUSION
54.07 ± 0.48
NORMAL ISOCHRON
54.51 ± 0.91
INVERSE ISOCHRON
54.52 ± 0.92

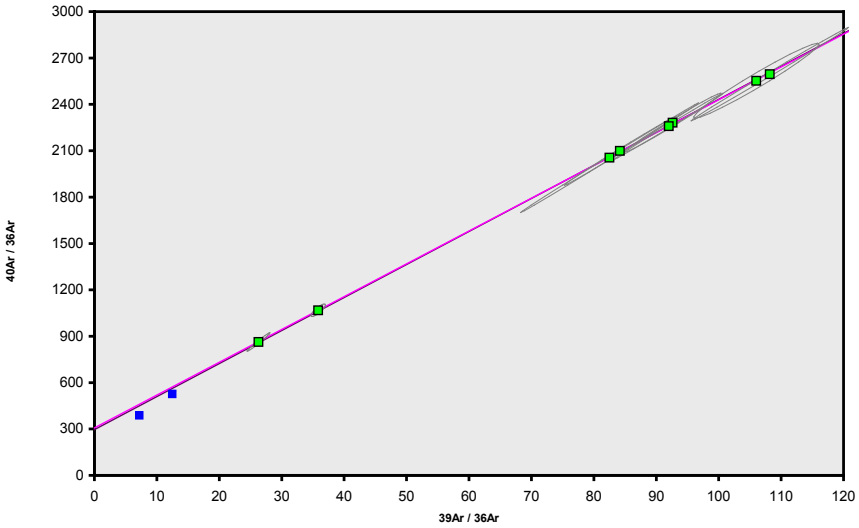
MSWD (PROBABILITY)
0.19 (99%)

Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

11C287.AGE >>> 251372 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.86 ± 0.44
TOTAL FUSION
54.07 ± 0.48
NORMAL ISOCHRON
54.51 ± 0.91
INVERSE ISOCHRON
54.52 ± 0.92

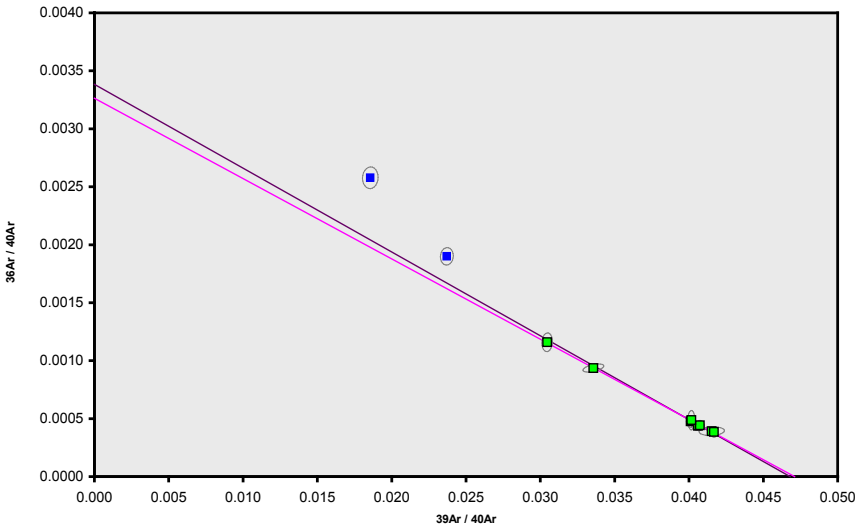
MSWD (PROBABILITY)
0.09 (100%)

Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

11C287.AGE >>> 251372 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.86 ± 0.44
TOTAL FUSION
54.07 ± 0.48
NORMAL ISOCHRON
54.51 ± 0.91
INVERSE ISOCHRON
54.52 ± 0.92

MSWD (PROBABILITY)
0.09 (100%)

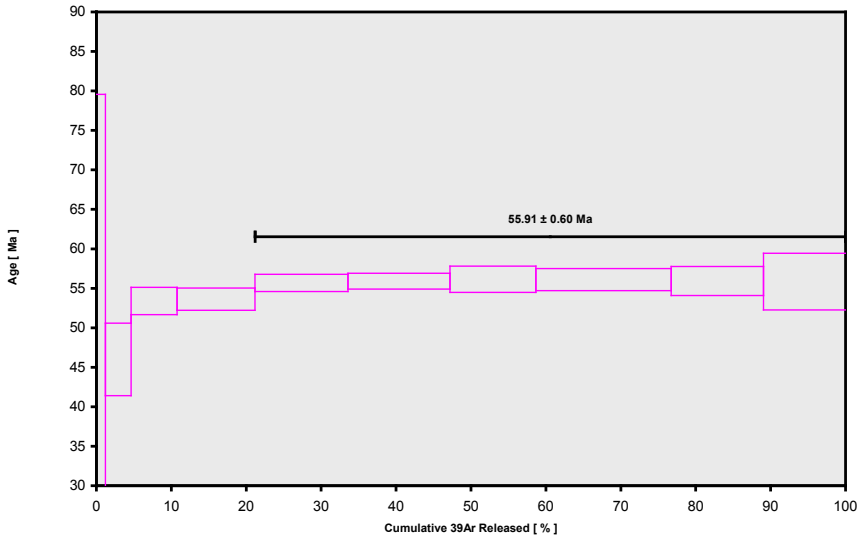
Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

Sample 278596, lava flow, Naqerloq Fm, Svartenhuk Halvø

11C300.AGE >>> 278596 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
55.91 ± 0.60
TOTAL FUSION
55.06 ± 0.79
NORMAL ISOCHRON
55.01 ± 7.97
INVERSE ISOCHRON
55.02 ± 7.91

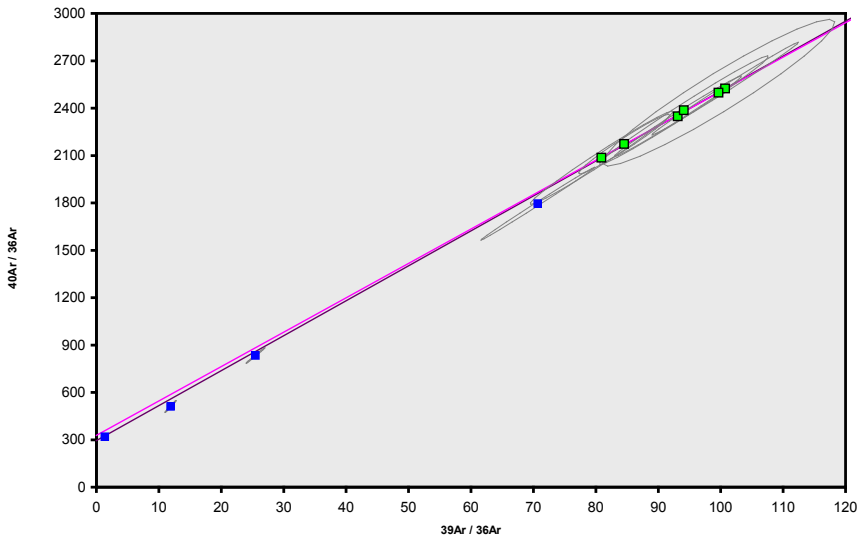
MSWD (PROBABILITY)
0.06 (100%)

Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

11C300.AGE >>> 278596 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
55.91 ± 0.60
TOTAL FUSION
55.06 ± 0.79
NORMAL ISOCHRON
55.01 ± 7.97
INVERSE ISOCHRON
55.02 ± 7.91

MSWD (PROBABILITY)
0.07 (99%)

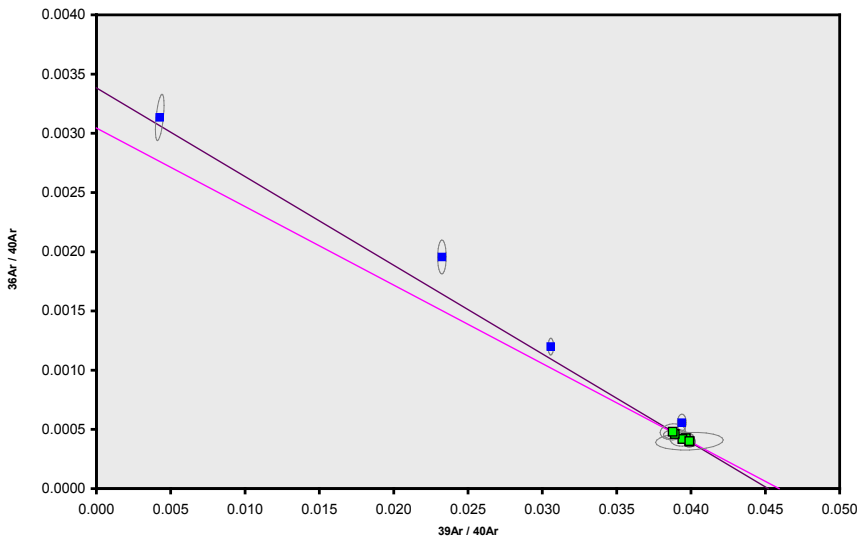
40AR/36AR INTERCEPT

Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

11C300.AGE >>> 278596 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
55.91 ± 0.60
TOTAL FUSION
55.06 ± 0.79
NORMAL ISOCHRON
55.01 ± 7.97
INVERSE ISOCHRON
55.02 ± 7.91

MSWD (PROBABILITY)
0.07 (99%)

SPREADING FACTOR

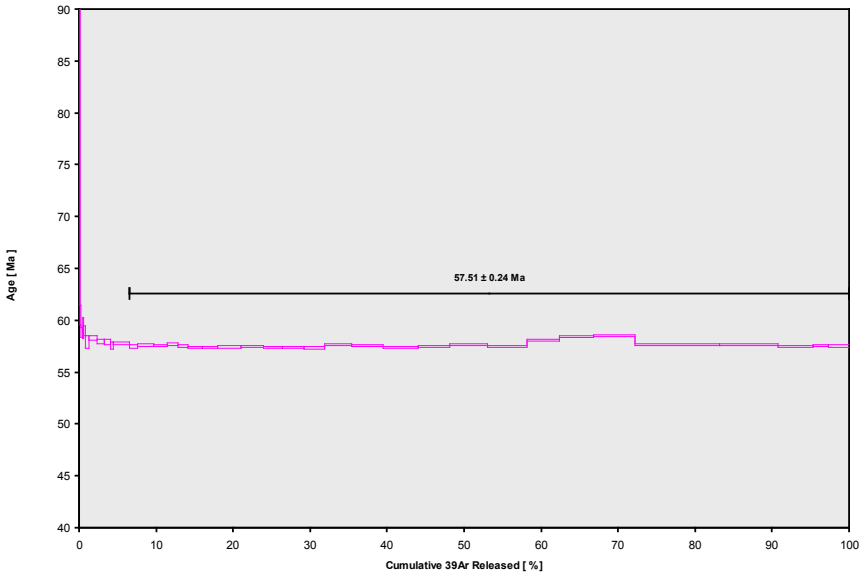
Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

Sample 1931.1, Arfertuarsuk trachyte flow, Svartenhuk Halvø

15D02205.AGE >>> 1931.1 >>> GREENLAND | LARSEN (13-27) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.51 ± 0.24
TOTAL FUSION
57.76 ± 0.24
NORMAL ISOCHRON
57.44 ± 0.24
INVERSE ISOCHRON
57.49 ± 0.24

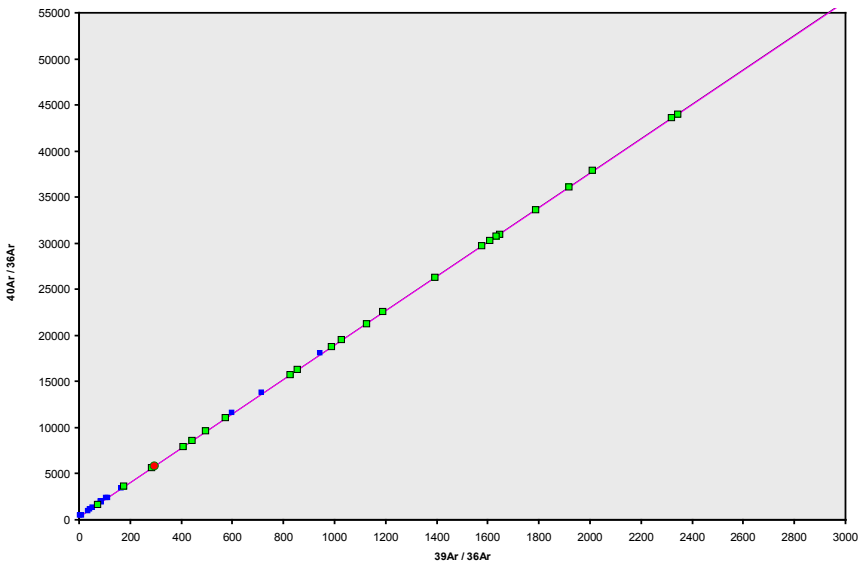
MSWD (PROBABILITY)
4.51 (0%)

Sample Info

Anorthoclase
Greenland
Dan Miggins

IRR = 14-OSU-04
J = 0.00173242 ± 0.00000362

15D02205.AGE >>> 1931.1 >>> GREENLAND | LARSEN (13-27) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.51 ± 0.24
TOTAL FUSION
57.76 ± 0.24
NORMAL ISOCHRON
57.44 ± 0.24
INVERSE ISOCHRON
57.49 ± 0.24

MSWD (PROBABILITY)
5.06 (0%)

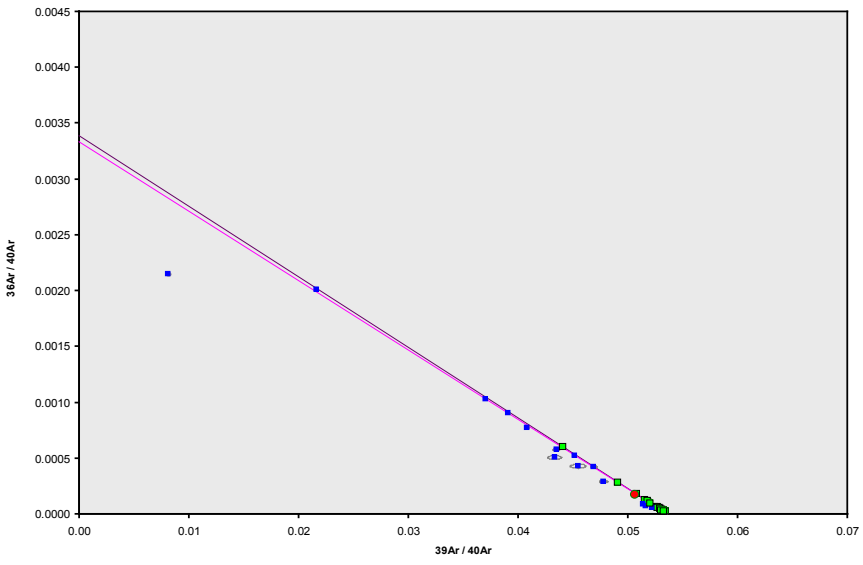
40AR/36AR INTERCEPT
304.2 ± 8.0

Sample Info

Anorthoclase
Greenland
Dan Miggins

IRR = 14-OSU-04
J = 0.00173242 ± 0.00000362

15D02205.AGE >>> 1931.1 >>> GREENLAND | LARSEN (13-27) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.51 ± 0.24
TOTAL FUSION
57.76 ± 0.24
NORMAL ISOCHRON
57.44 ± 0.24
INVERSE ISOCHRON
57.49 ± 0.24

MSWD (PROBABILITY)
4.40 (0%)

SPREADING FACTOR
17.3%

40AR/36AR INTERCEPT
300.1 ± 7.5

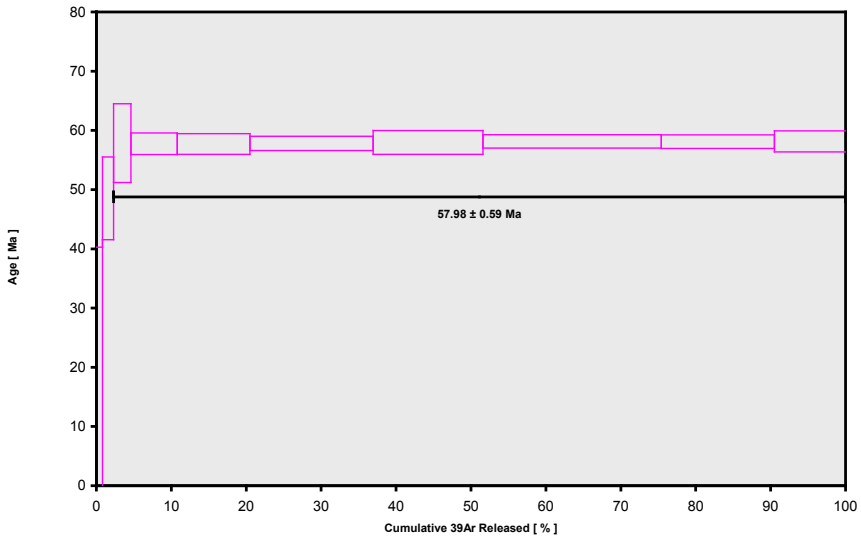
Sample Info

Anorthoclase
Greenland
Dan Miggins

IRR = 14-OSU-04
J = 0.00173242 ± 0.00000362

Sample 262838, lava flow, Skalø Mb, Svartenhuk Fm, Svartenhuk Halvø

11C173.AGE >>> 262838 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.98 ± 0.59
TOTAL FUSION
57.49 ± 0.66
NORMAL ISOCHRON
58.15 ± 1.07
INVERSE ISOCHRON
58.16 ± 1.05

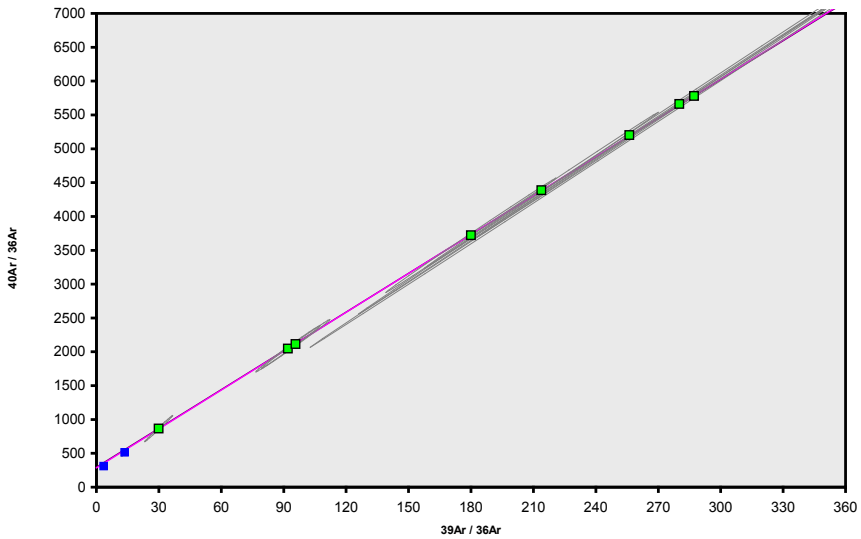
MSWD (PROBABILITY)
0.06 (100%)

Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

11C173.AGE >>> 262838 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.98 ± 0.59
TOTAL FUSION
57.49 ± 0.66
NORMAL ISOCHRON
58.15 ± 1.07
INVERSE ISOCHRON
58.16 ± 1.05

MSWD (PROBABILITY)
0.04 (100%)

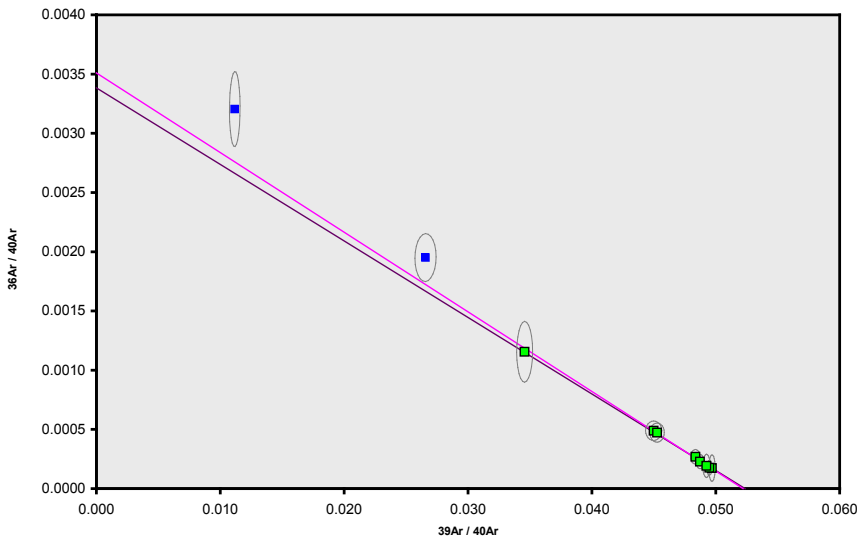
40AR/36AR INTERCEPT

Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

11C173.AGE >>> 262838 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.98 ± 0.59
TOTAL FUSION
57.49 ± 0.66
NORMAL ISOCHRON
58.15 ± 1.07
INVERSE ISOCHRON
58.16 ± 1.05

MSWD (PROBABILITY)
0.04 (100%)

SPREADING FACTOR

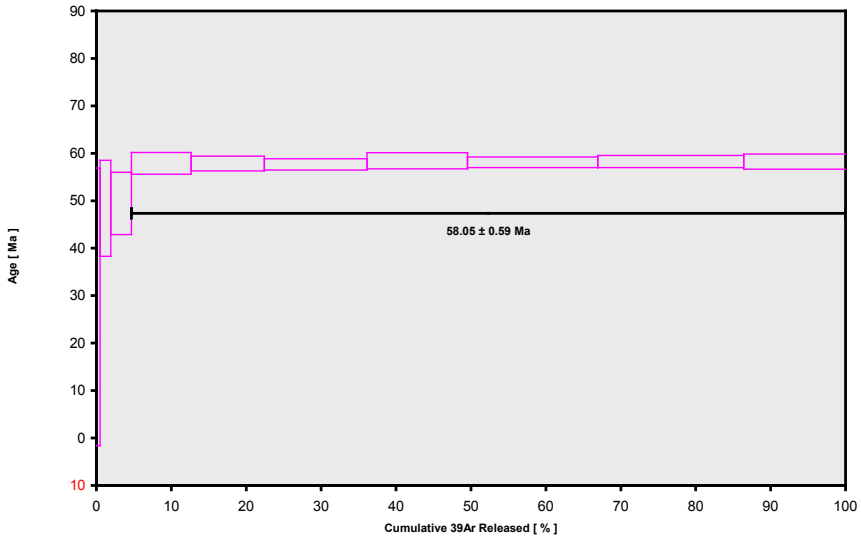
Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

Sample 262773, lava flow, Nuuit Mb, Svartenhuk Fm, Svartenhuk Halvø

11C187.AGE >>> 262773 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.05 ± 0.59
TOTAL FUSION
57.58 ± 0.65
NORMAL ISOCHRON
58.20 ± 1.16
INVERSE ISOCHRON
58.22 ± 1.13

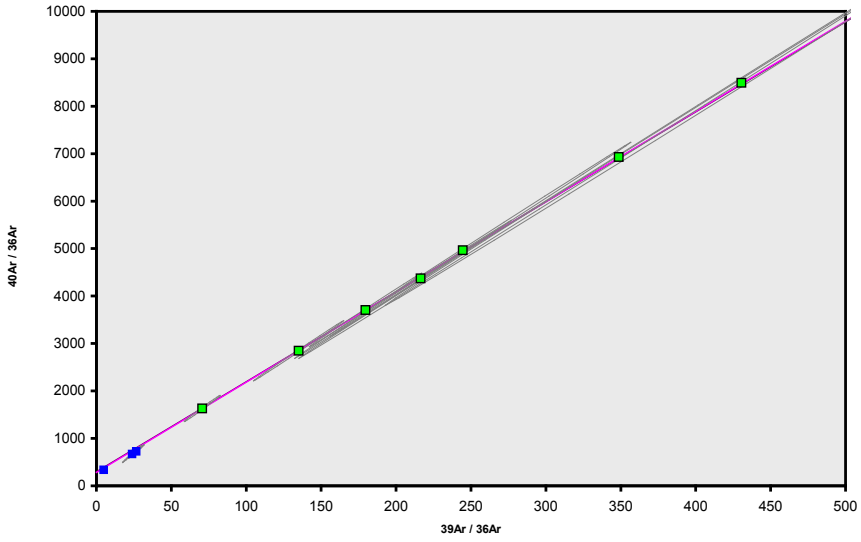
MSWD (PROBABILITY)
0.15 (99%)

Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

11C187.AGE >>> 262773 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.05 ± 0.59
TOTAL FUSION
57.58 ± 0.65
NORMAL ISOCHRON
58.20 ± 1.16
INVERSE ISOCHRON
58.22 ± 1.13

MSWD (PROBABILITY)
0.18 (97%)

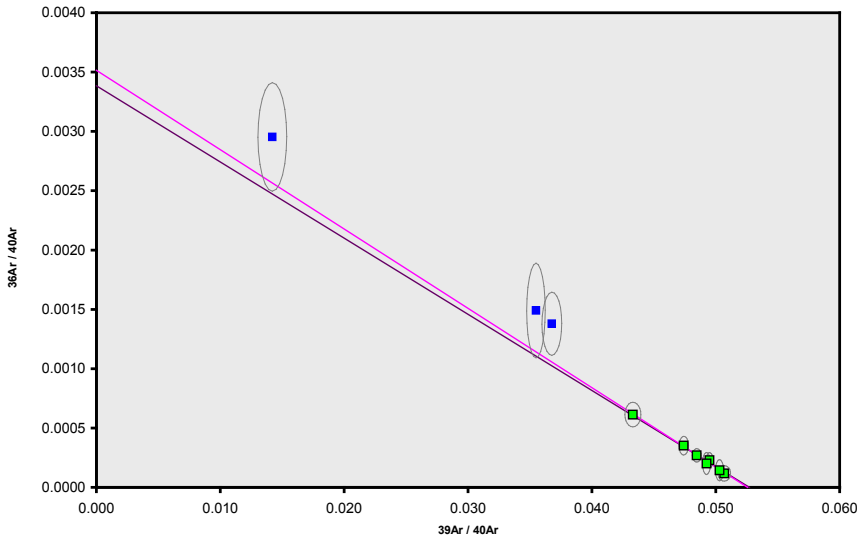
40AR/36AR INTERCEPT

Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

11C187.AGE >>> 262773 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.05 ± 0.59
TOTAL FUSION
57.58 ± 0.65
NORMAL ISOCHRON
58.20 ± 1.16
INVERSE ISOCHRON
58.22 ± 1.13

MSWD (PROBABILITY)
0.16 (98%)

SPREADING FACTOR

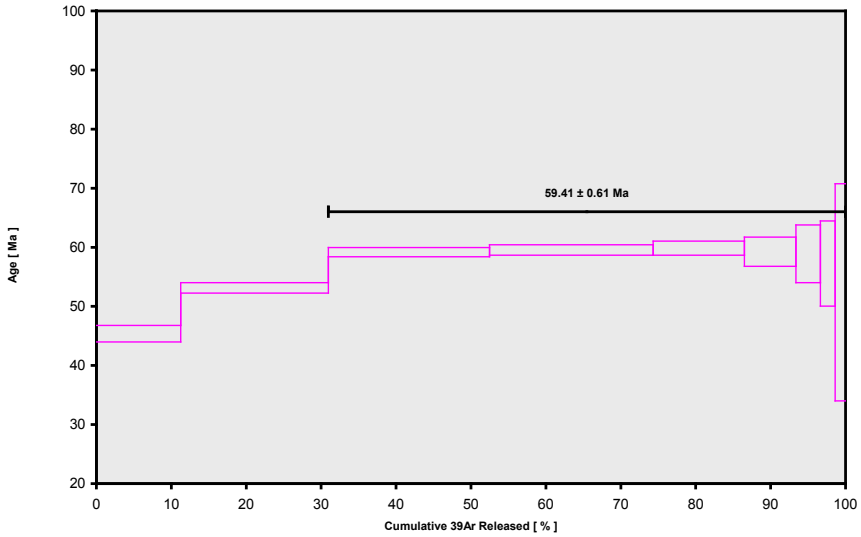
Sample Info

plagioclase
W. Greenland
jh

IRR = OSU3F10

Sample 278566, lava flow, Tunuarsuk Mb, Svartenhuk Fm, Svartenhuk Halvø

13C0212.AGE >>> 278566 GM LARSEN 2C11-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.41 ± 0.61
TOTAL FUSION
56.46 ± 0.61
NORMAL ISOCHRON
59.86 ± 1.19
INVERSE ISOCHRON
59.88 ± 1.20

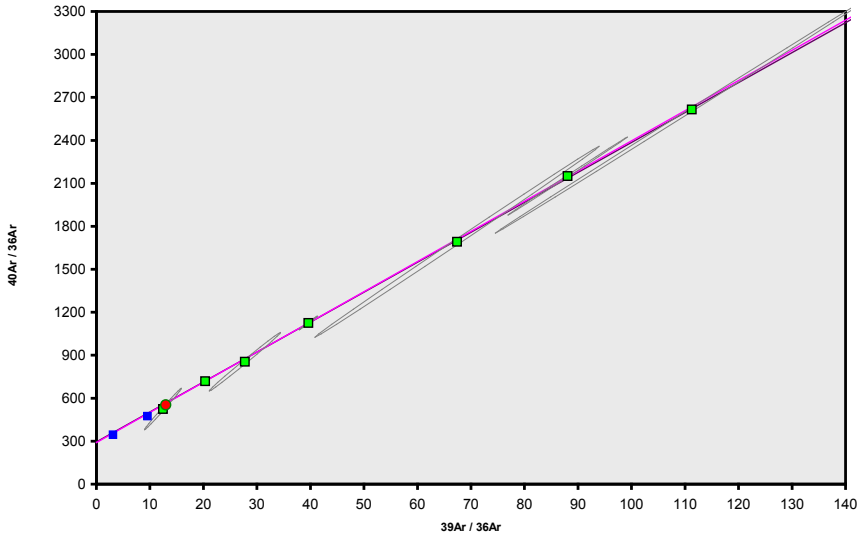
MSWD (PROBABILITY)
0.33 (92%)

Sample Info

gm
Greenland
DH

IRR = OSU2C12

13C0212.AGE >>> 278566 GM LARSEN 2C11-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.41 ± 0.61
TOTAL FUSION
56.46 ± 0.61
NORMAL ISOCHRON
59.86 ± 1.19
INVERSE ISOCHRON
59.88 ± 1.20

MSWD (PROBABILITY)
0.28 (93%)

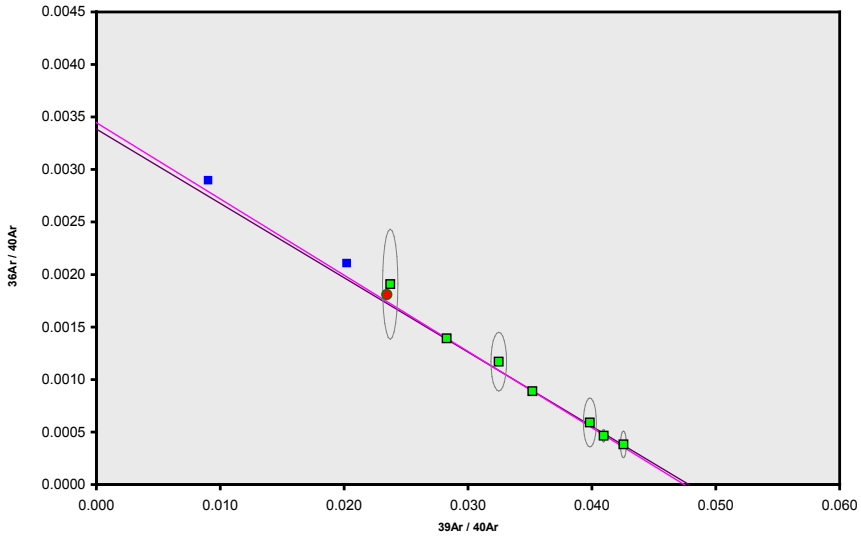
40AR/36AR INTERCEPT

Sample Info

gm
Greenland
DH

IRR = OSU2C12

13C0212.AGE >>> 278566 GM LARSEN 2C11-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.41 ± 0.61
TOTAL FUSION
56.46 ± 0.61
NORMAL ISOCHRON
59.86 ± 1.19
INVERSE ISOCHRON
59.88 ± 1.20

MSWD (PROBABILITY)
0.24 (95%)

SPREADING FACTOR

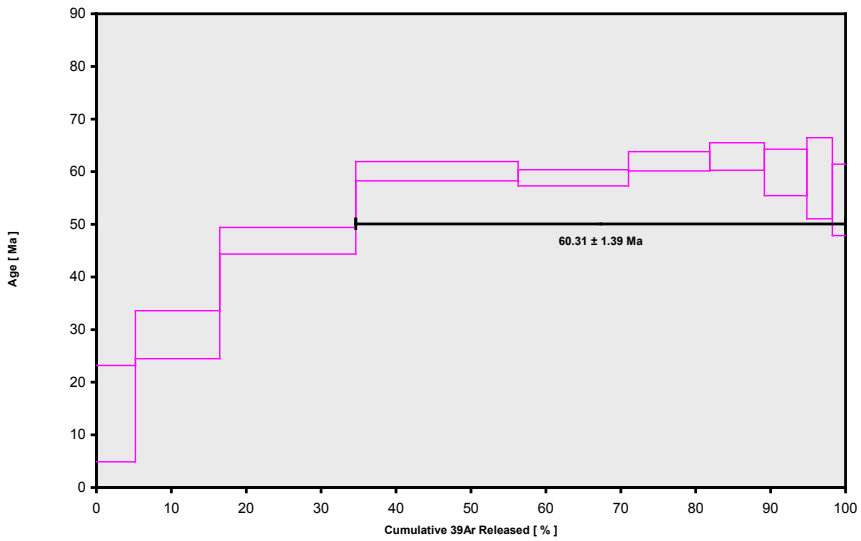
Sample Info

gm
Greenland
DH

IRR = OSU2C12

Sample 278578, lava flow, Tunuarsuk Mb, Svartenhuk Fm, Svartenhuk Halvø

13C0224.AGE >>> 278578 GM LARSEN 2C12-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
60.31 ± 1.39
TOTAL FUSION
51.92 ± 1.09
NORMAL ISOCHRON
62.57 ± 9.15
INVERSE ISOCHRON
62.85 ± 8.96

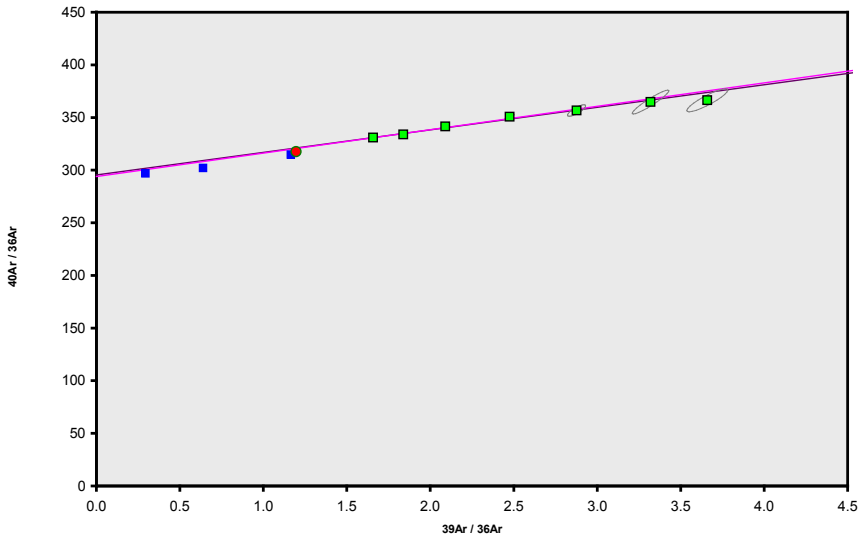
MSWD (PROBABILITY)
2.31 (3%)

Sample Info

gm
Greenland
rd

IRR = OSU2C12

13C0224.AGE >>> 278578 GM LARSEN 2C12-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
60.31 ± 1.39
TOTAL FUSION
51.92 ± 1.09
NORMAL ISOCHRON
62.57 ± 9.15
INVERSE ISOCHRON
62.85 ± 8.96

MSWD (PROBABILITY)
2.66 (2%)

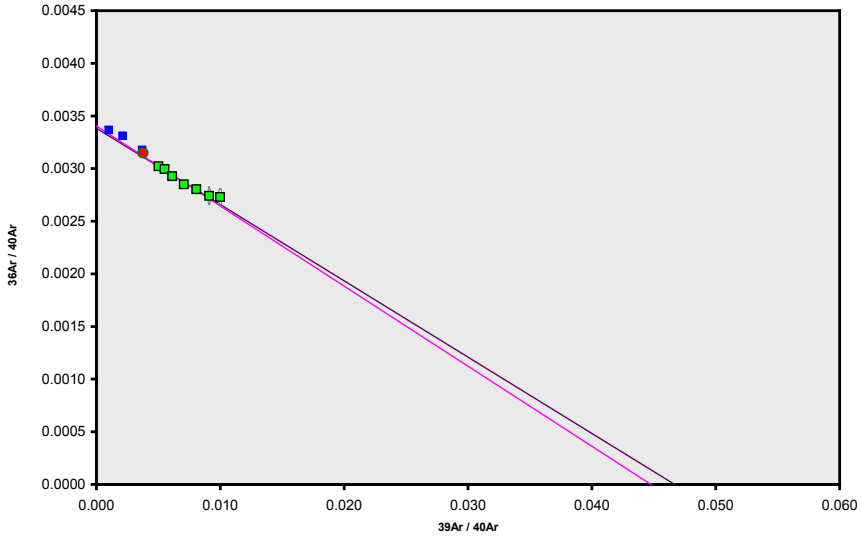
40AR/36AR

Sample Info

gm
Greenland
rd

IRR = OSU2C12

13C0224.AGE >>> 278578 GM LARSEN 2C12-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
60.31 ± 1.39
TOTAL FUSION
51.92 ± 1.09
NORMAL ISOCHRON
62.57 ± 9.15
INVERSE ISOCHRON
62.85 ± 8.96

MSWD (PROBABILITY)
2.61 (2%)

SPREADING FACTOR

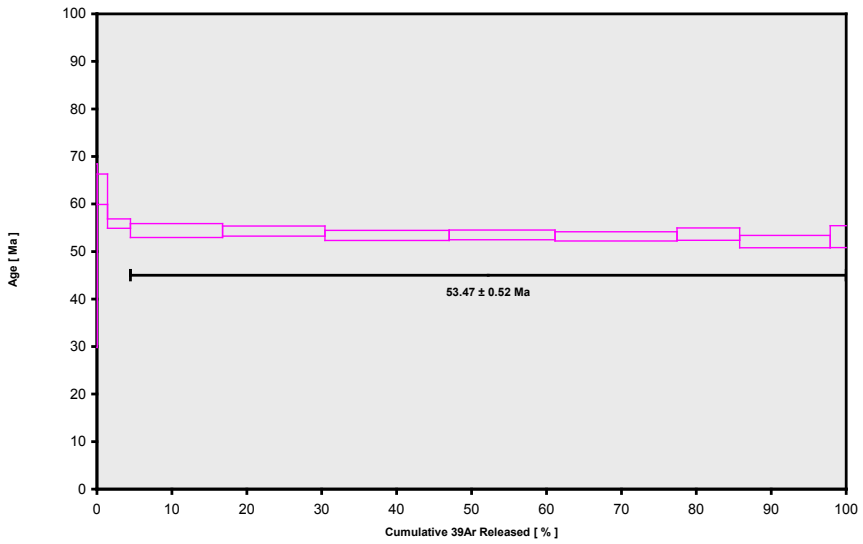
Sample Info

gm
Greenland
rd

IRR = OSU2C12

Sample 438728, lava flow, Erqua Formation, Ubekendt Ejland

99C0272.AGE >>> GGU 438728 5C5-98 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
53.47 ± 0.52
TOTAL FUSION
53.68 ± 0.45
NORMAL ISOCHRON
52.15 ± 0.83
INVERSE ISOCHRON
53.05 ± 0.62

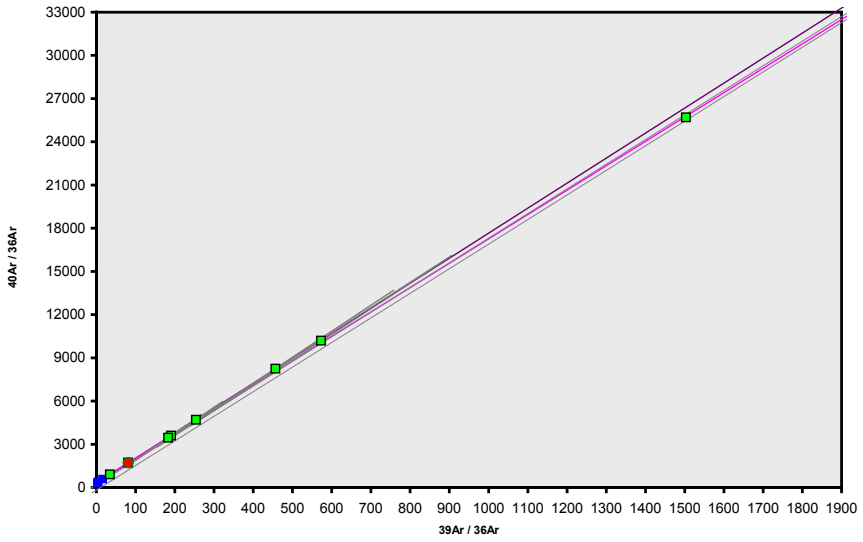
MSWD (PROBABILITY)
1.33 (23%)

Sample Info

whole rock
Greenland
Bob Duncan

IRR = OSU5A98

99C0272.AGE >>> GGU 438728 5C5-98 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
53.47 ± 0.52
TOTAL FUSION
53.68 ± 0.45
NORMAL ISOCHRON
52.15 ± 0.83
INVERSE ISOCHRON
53.05 ± 0.62

MSWD (PROBABILITY)
1.40 (21%)

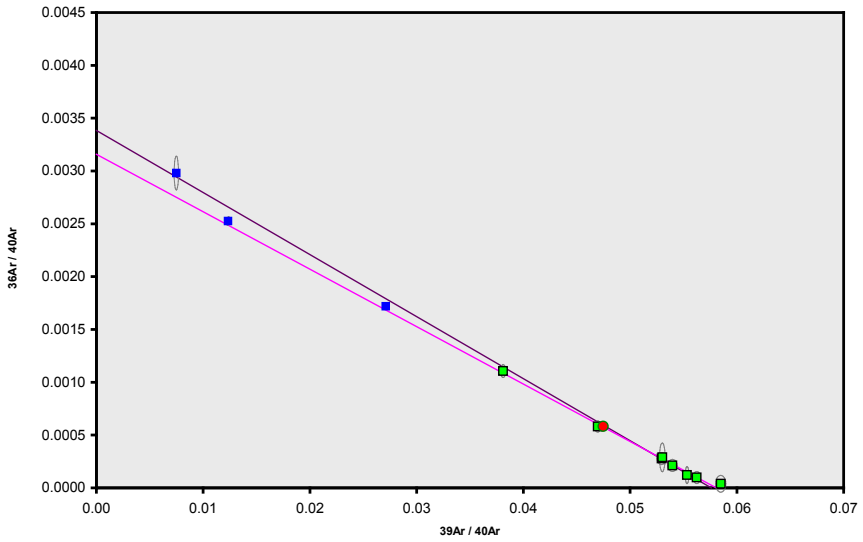
40AR/36AR INTERCEPT

Sample Info

whole rock
Greenland
Bob Duncan

IRR = OSU5A98

99C0272.AGE >>> GGU 438728 5C5-98 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
53.47 ± 0.52
TOTAL FUSION
53.68 ± 0.45
NORMAL ISOCHRON
52.15 ± 0.83
INVERSE ISOCHRON
53.05 ± 0.62

MSWD (PROBABILITY)
0.65 (69%)

SPREADING FACTOR

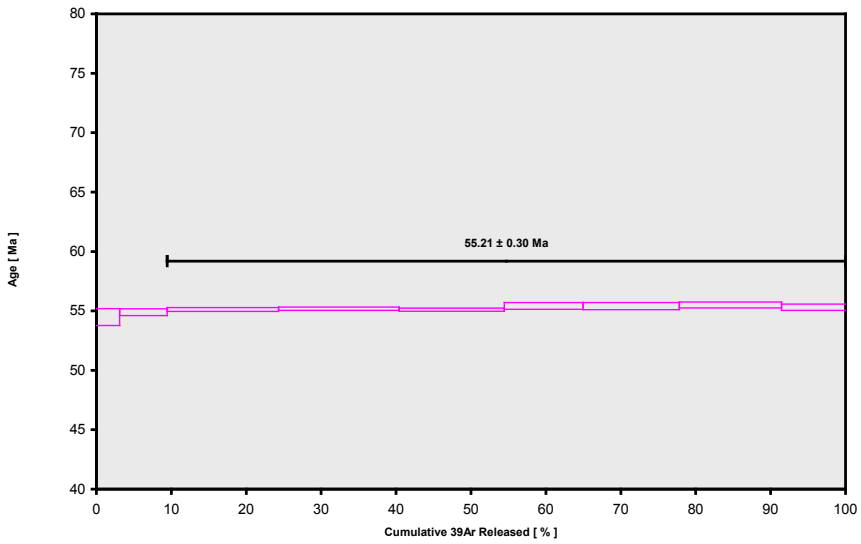
Sample Info

whole rock
Greenland
Bob Duncan

IRR = OSU5A98

Sample 417747, granophyre, Sarqâta qáqâ complex, Ubekendt Ejland

13C3739.AGE >>> 417747 LARSEN 6C13-13 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
55.21 ± 0.30
TOTAL FUSION
55.23 ± 0.29
NORMAL ISOCHRON
54.97 ± 0.34
INVERSE ISOCHRON
54.97 ± 0.34

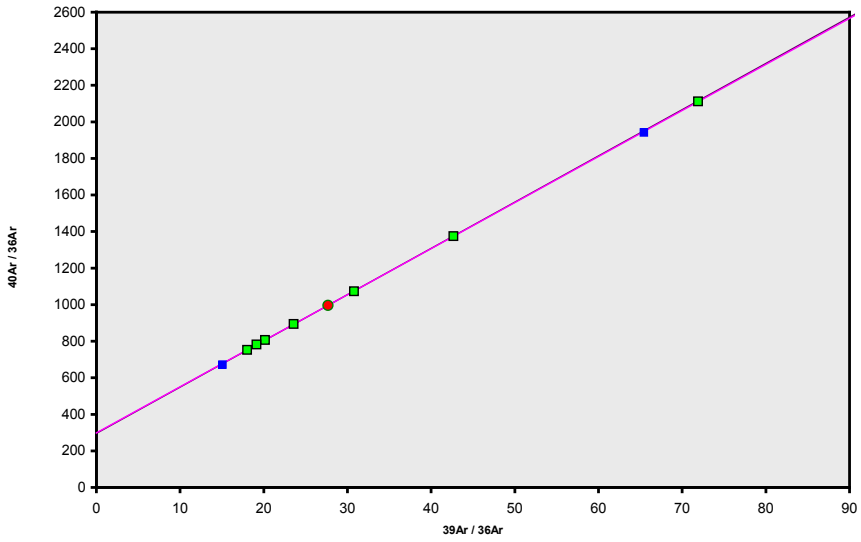
MSWD (PROBABILITY)
2.27 (3%)

Sample Info

Kspar
West Greenland
Trevor Smith

IRR = OSU6C13

13C3739.AGE >>> 417747 LARSEN 6C13-13 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
55.21 ± 0.30
TOTAL FUSION
55.23 ± 0.29
NORMAL ISOCHRON
54.97 ± 0.34
INVERSE ISOCHRON
54.97 ± 0.34

MSWD (PROBABILITY)
1.12 (34%)

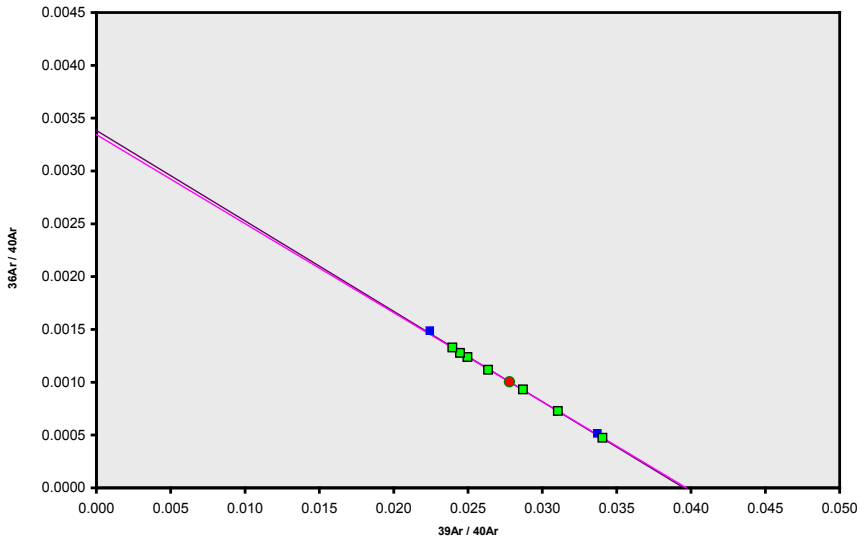
40AR/36AR INTERCEPT

Sample Info

Kspar
West Greenland
Trevor Smith

IRR = OSU6C13

13C3739.AGE >>> 417747 LARSEN 6C13-13 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
55.21 ± 0.30
TOTAL FUSION
55.23 ± 0.29
NORMAL ISOCHRON
54.97 ± 0.34
INVERSE ISOCHRON
54.97 ± 0.34

MSWD (PROBABILITY)
1.12 (35%)

SPREADING FACTOR

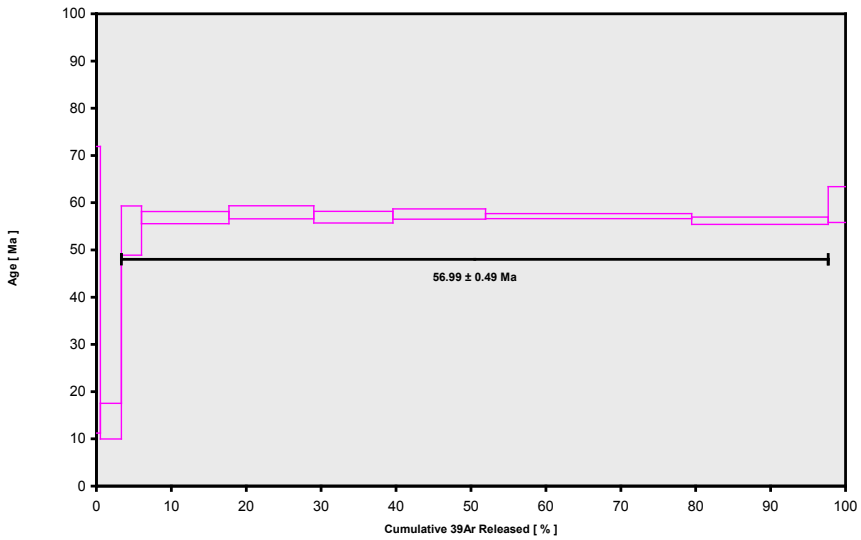
Sample Info

Kspar
West Greenland
Trevor Smith

IRR = OSU6C13

Sample 455754, gabbro, Sarqâta qáqâ complex, Ubekendt Ejland

02C0278.AGE >>> GGU 455754 1A15-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.99 ± 0.49
TOTAL FUSION
55.76 ± 0.47
NORMAL ISOCHRON
56.59 ± 0.75
INVERSE ISOCHRON
56.95 ± 0.71

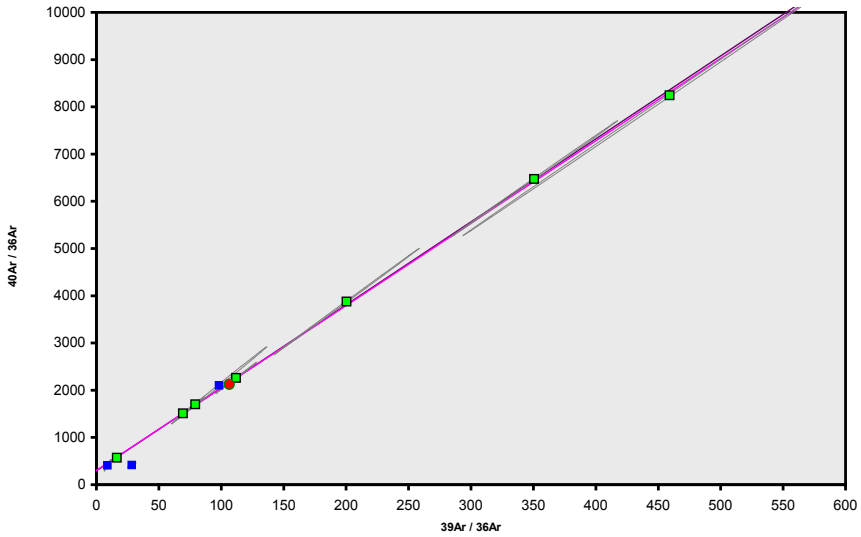
MSWD (PROBABILITY)
1.55 (16%)

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0278.AGE >>> GGU 455754 1A15-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.99 ± 0.49
TOTAL FUSION
55.76 ± 0.47
NORMAL ISOCHRON
56.59 ± 0.75
INVERSE ISOCHRON
56.95 ± 0.71

MSWD (PROBABILITY)
2.10 (6%)

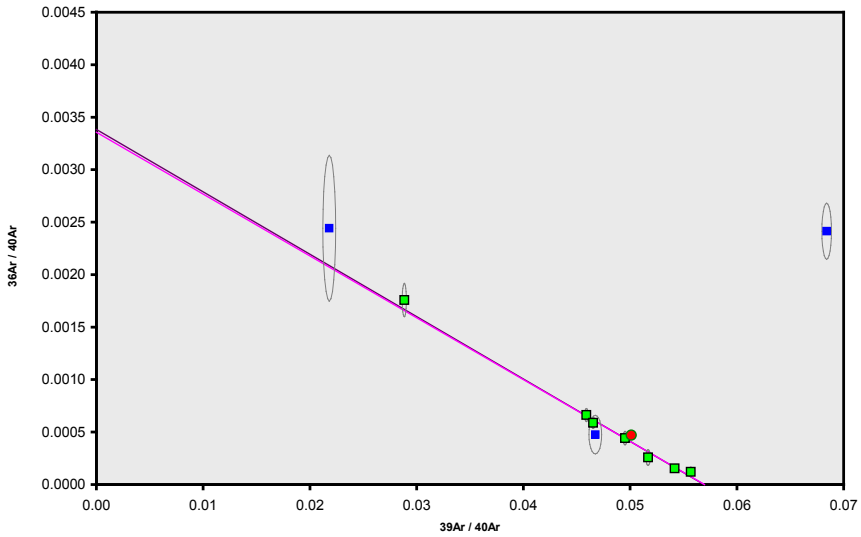
40AR/36AR INTERCEPT

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0278.AGE >>> GGU 455754 1A15-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.99 ± 0.49
TOTAL FUSION
55.76 ± 0.47
NORMAL ISOCHRON
56.59 ± 0.75
INVERSE ISOCHRON
56.95 ± 0.71

MSWD (PROBABILITY)
1.84 (10%)

SPREADING FACTOR

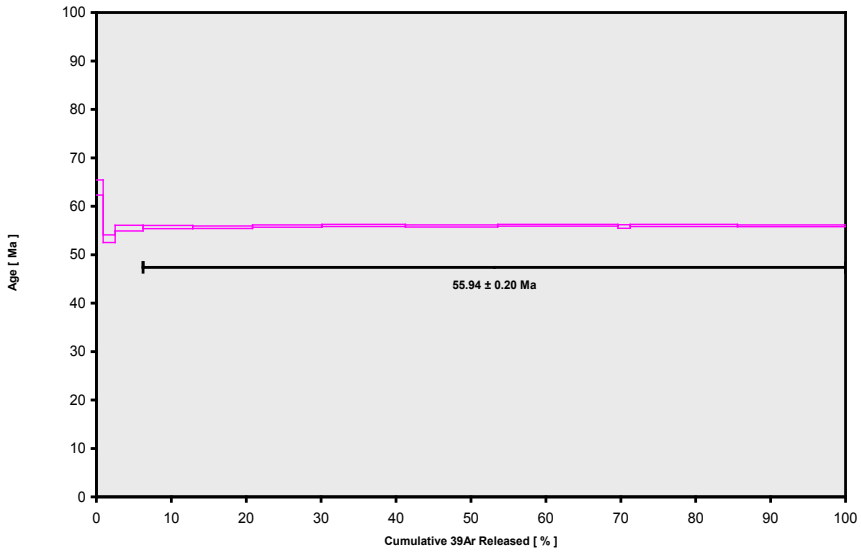
Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

Sample 438740, lava flow, Nûk takisôq Mb, Naqerloq Fm, Ubekendt Ejland

02C0165 - COPY.AGE >>> GGU 438740 1A7-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
55.94 ± 0.20
TOTAL FUSION
55.96 ± 0.20
NORMAL ISOCHRON
55.79 ± 0.40
INVERSE ISOCHRON
55.69 ± 0.39

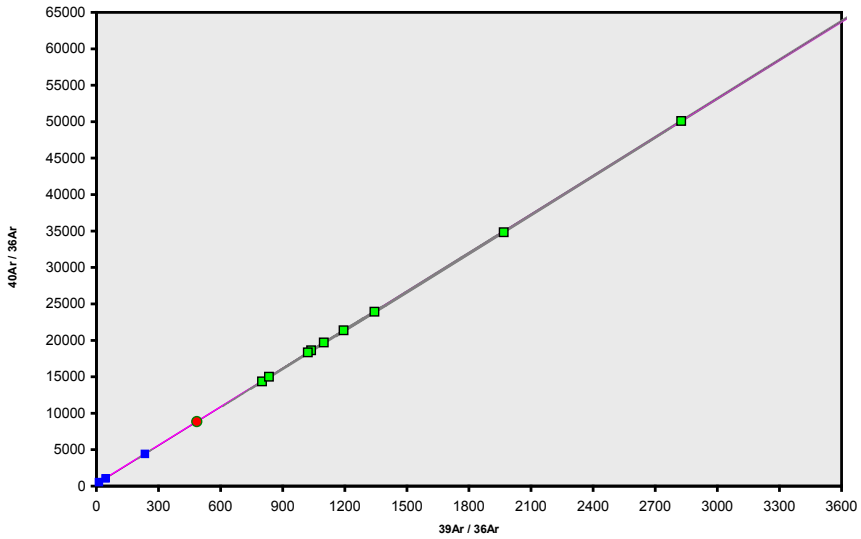
MSWD (PROBABILITY)
1.42 (18%)

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0165 - COPY.AGE >>> GGU 438740 1A7-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
55.94 ± 0.20
TOTAL FUSION
55.96 ± 0.20
NORMAL ISOCHRON
55.79 ± 0.40
INVERSE ISOCHRON
55.69 ± 0.39

MSWD (PROBABILITY)
1.56 (14%)

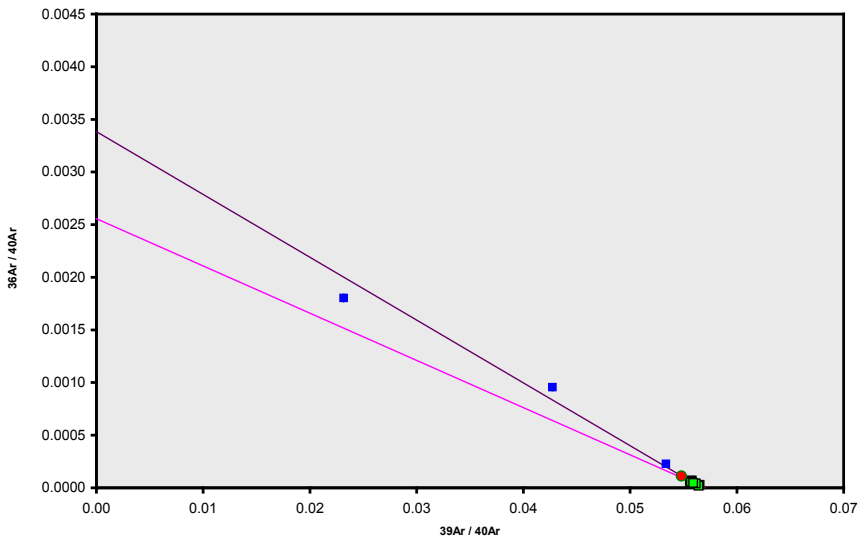
40AR/36AR INTERCEPT

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0165 - COPY.AGE >>> GGU 438740 1A7-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
55.94 ± 0.20
TOTAL FUSION
55.96 ± 0.20
NORMAL ISOCHRON
55.79 ± 0.40
INVERSE ISOCHRON
55.69 ± 0.39

MSWD (PROBABILITY)
1.13 (34%)

SPREADING FACTOR

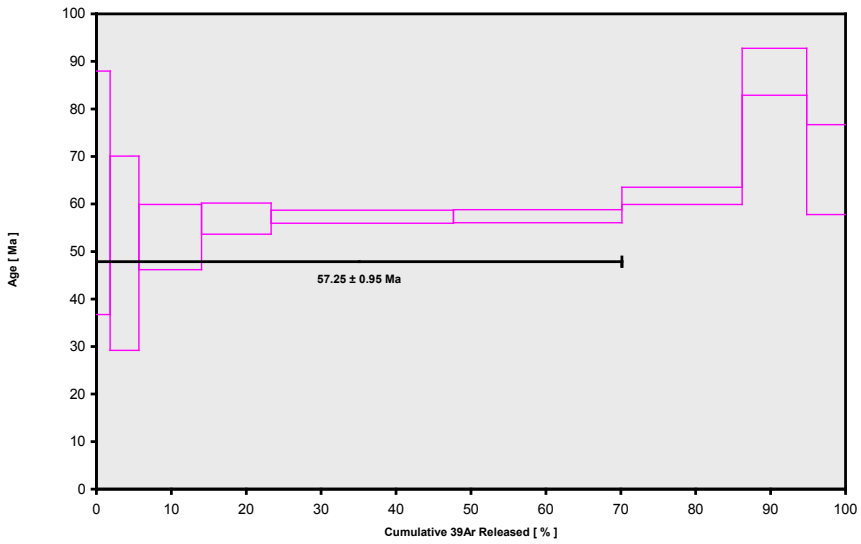
Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

Sample 455835, lava flow, Nûk takisôq Mb, Naqerloq Fm, Ubekendt Ejland

02C0269.AGE >>> GGU 455835 1A9-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.25 ± 0.95
TOTAL FUSION
60.61 ± 1.42
NORMAL ISOCHRON
57.38 ± 1.35
INVERSE ISOCHRON
57.33 ± 1.35

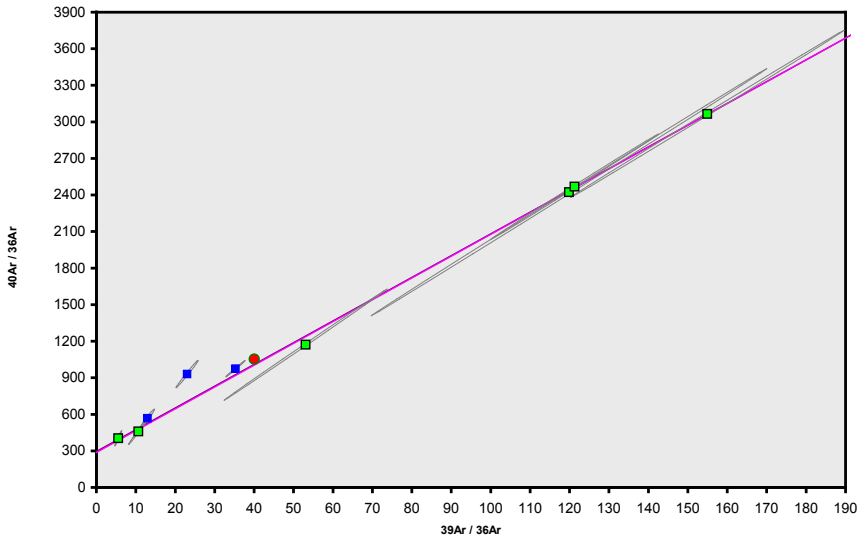
MSWD (PROBABILITY)
0.47 (80%)

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0269.AGE >>> GGU 455835 1A9-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.25 ± 0.95
TOTAL FUSION
60.61 ± 1.42
NORMAL ISOCHRON
57.38 ± 1.35
INVERSE ISOCHRON
57.33 ± 1.35

MSWD (PROBABILITY)
0.82 (51%)

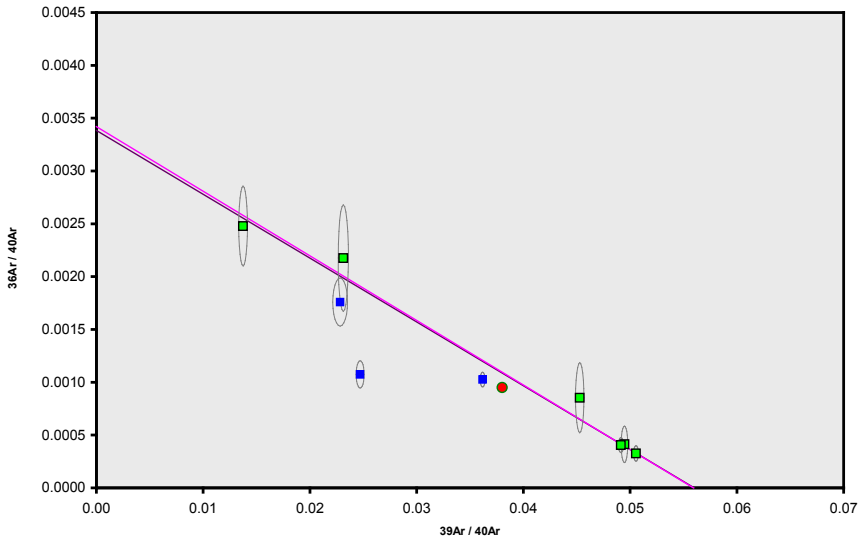
40AR/36AR INTERCEPT

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0269.AGE >>> GGU 455835 1A9-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
57.25 ± 0.95
TOTAL FUSION
60.61 ± 1.42
NORMAL ISOCHRON
57.38 ± 1.35
INVERSE ISOCHRON
57.33 ± 1.35

MSWD (PROBABILITY)
0.58 (67%)

SPREADING FACTOR

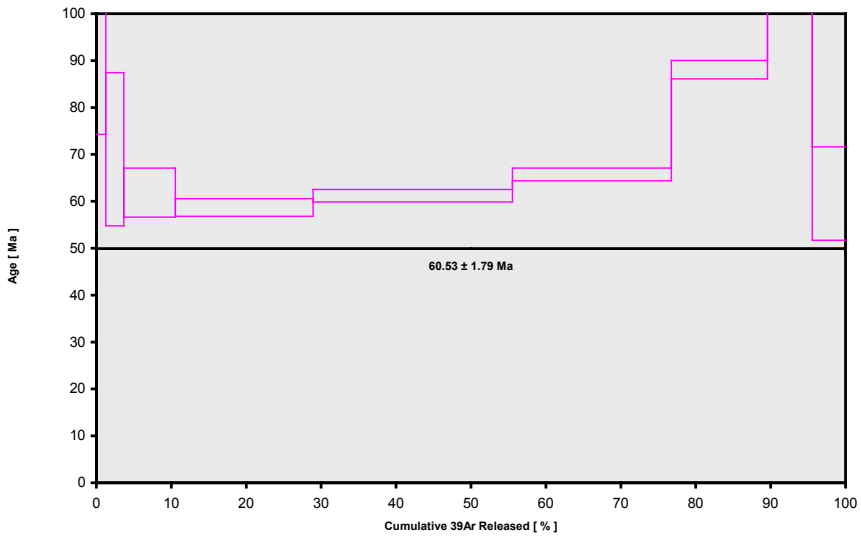
Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

Sample 455877, lava flow, Qeqertalik Mb, Svartenhuk Fm, Ubekendt Ejland

02C0178.AGE >>> GGU 455877 1A8-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
60.53 ± 1.79
TOTAL FUSION
69.66 ± 1.11
NORMAL ISOCHRON
59.19 ± 1.78
INVERSE ISOCHRON
59.50 ± 1.71

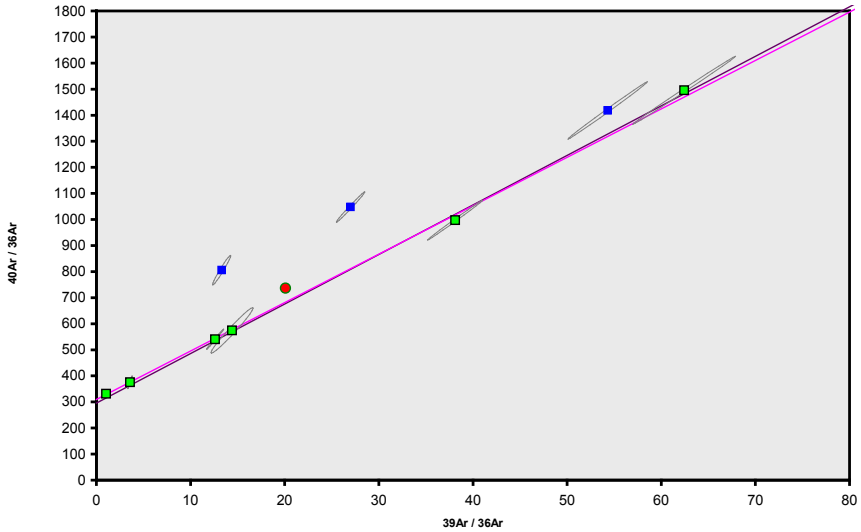
MSWD (PROBABILITY)
2.86 (1%)

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0178.AGE >>> GGU 455877 1A8-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
60.53 ± 1.79
TOTAL FUSION
69.66 ± 1.11
NORMAL ISOCHRON
59.19 ± 1.78
INVERSE ISOCHRON
59.50 ± 1.71

MSWD (PROBABILITY)
1.64 (16%)

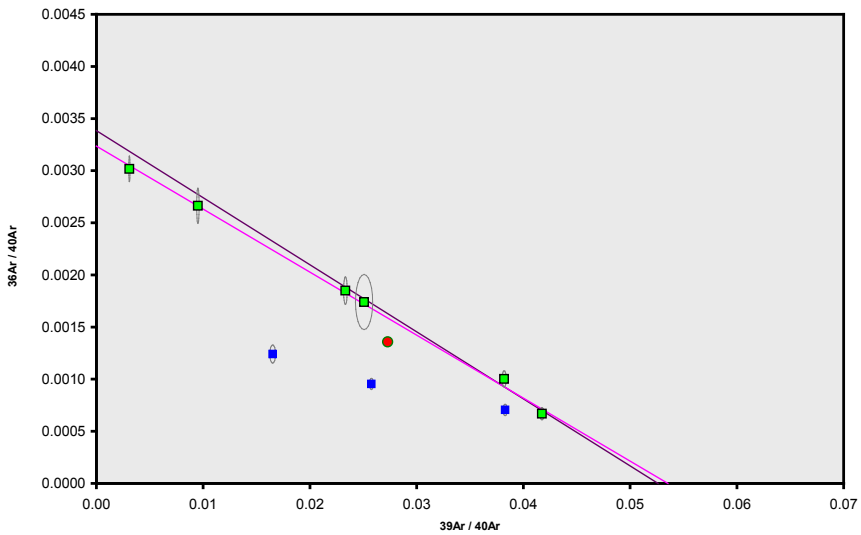
40AR/36AR INTERCEPT

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0178.AGE >>> GGU 455877 1A8-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
60.53 ± 1.79
TOTAL FUSION
69.66 ± 1.11
NORMAL ISOCHRON
59.19 ± 1.78
INVERSE ISOCHRON
59.50 ± 1.71

MSWD (PROBABILITY)
1.60 (17%)

SPREADING FACTOR

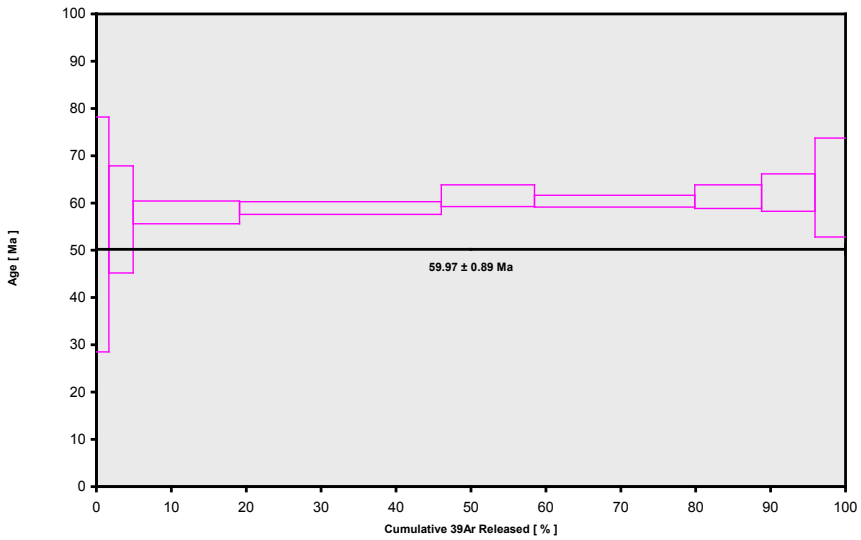
Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

Sample 455809, lava flow, Qeqertalik Mb, Svartenhuk Fm, Ubekendt Ejland

02C0193.AGE >>> GGU 455809 1A12-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.97 ± 0.89
TOTAL FUSION
59.90 ± 1.03
NORMAL ISOCHRON
58.95 ± 1.84
INVERSE ISOCHRON
58.98 ± 1.88

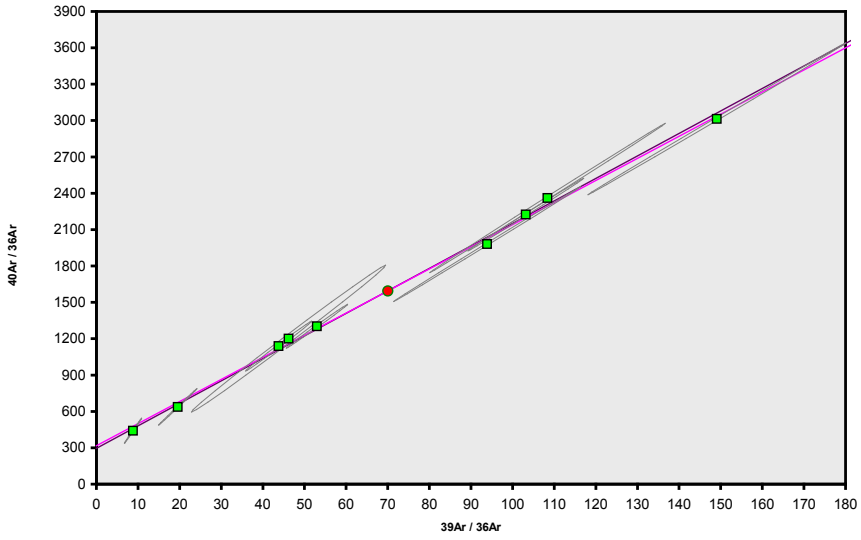
MSWD (PROBABILITY)
1.36 (21%)

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0193.AGE >>> GGU 455809 1A12-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.97 ± 0.89
TOTAL FUSION
59.90 ± 1.03
NORMAL ISOCHRON
58.95 ± 1.84
INVERSE ISOCHRON
58.98 ± 1.88

MSWD (PROBABILITY)
1.37 (21%)

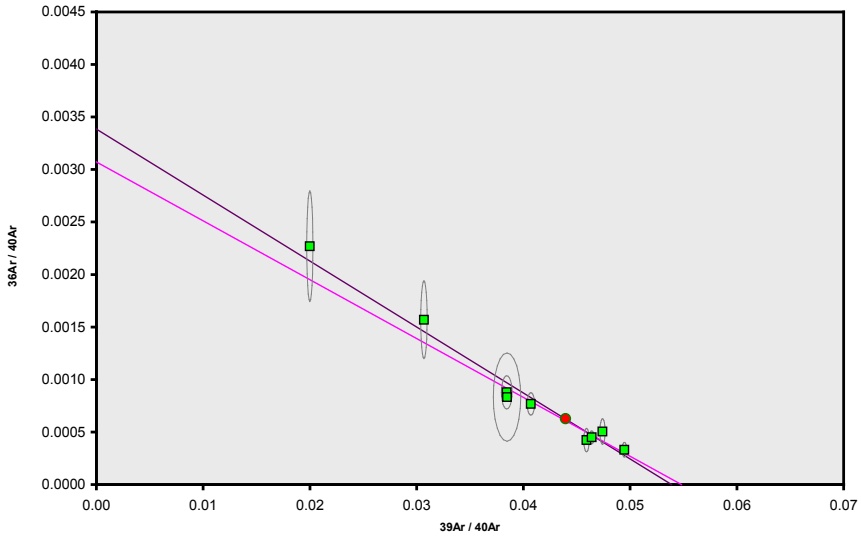
40AR/36AR INTERCEPT

Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

02C0193.AGE >>> GGU 455809 1A12-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.97 ± 0.89
TOTAL FUSION
59.90 ± 1.03
NORMAL ISOCHRON
58.95 ± 1.84
INVERSE ISOCHRON
58.98 ± 1.88

MSWD (PROBABILITY)
1.26 (27%)

SPREADING FACTOR

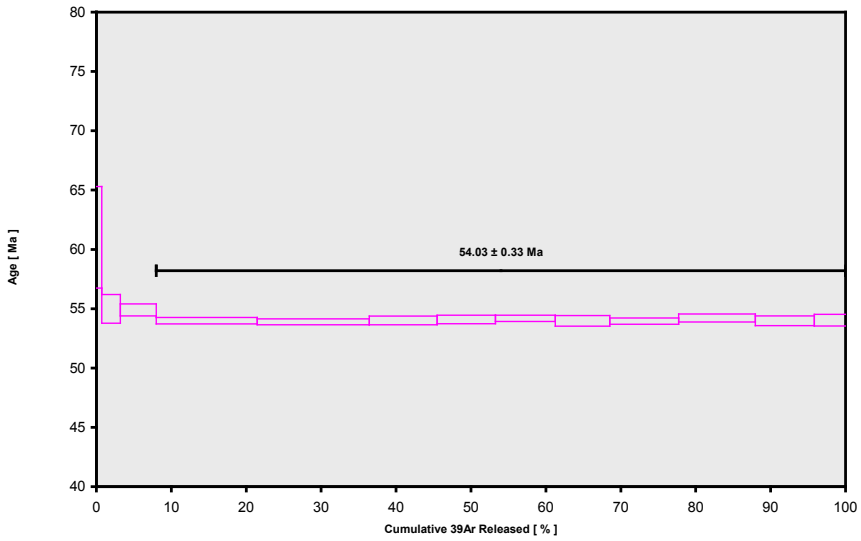
Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01

Sample 135152, tuff, upper Kanísut Mb, Naqerloq Fm, western Nuussuaq

12C3150.AGE >>> 135152 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.03 ± 0.33
TOTAL FUSION
54.14 ± 0.33
NORMAL ISOCHRON
54.14 ± 0.37
INVERSE ISOCHRON
54.14 ± 0.37

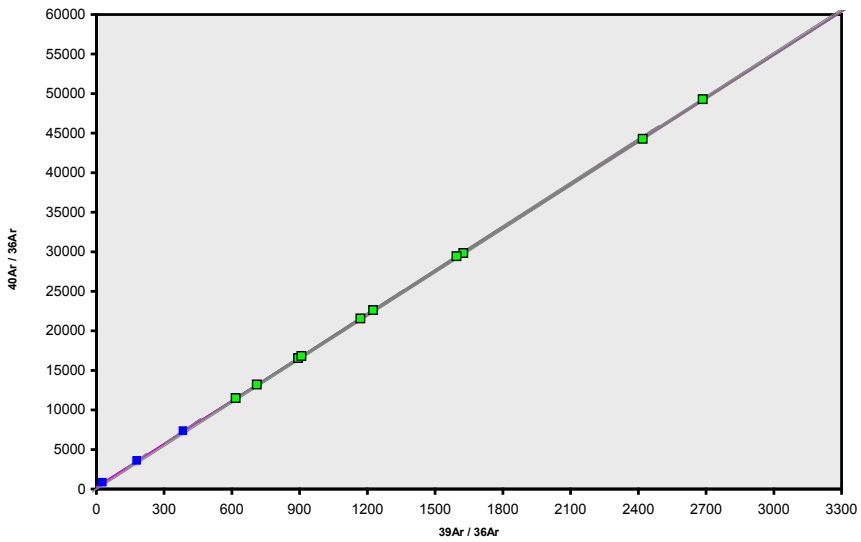
MSWD (PROBABILITY)
0.48 (89%)

Sample Info

plagioclase
Greenland
jh

IRR = OSU2B12

12C3150.AGE >>> 135152 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.03 ± 0.33
TOTAL FUSION
54.14 ± 0.33
NORMAL ISOCHRON
54.14 ± 0.37
INVERSE ISOCHRON
54.14 ± 0.37

MSWD (PROBABILITY)
0.43 (90%)

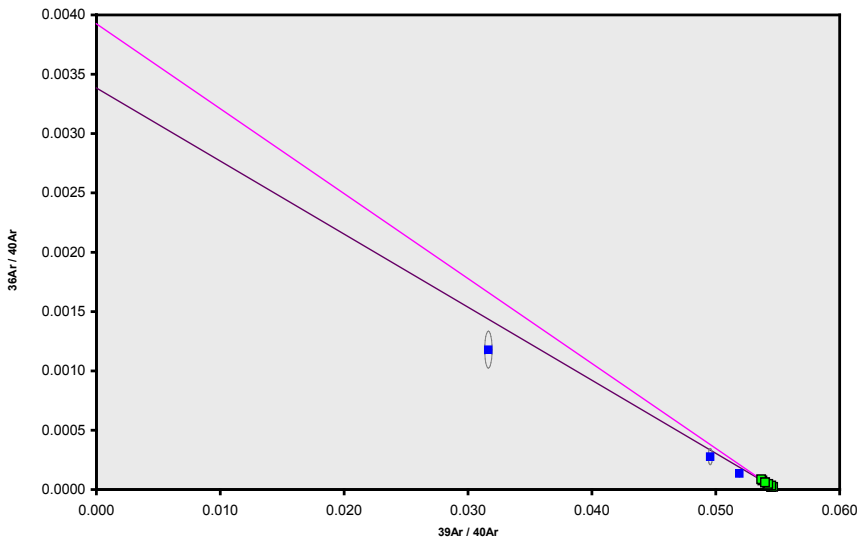
40AR/36AR INTERCEPT

Sample Info

plagioclase
Greenland
jh

IRR = OSU2B12

12C3150.AGE >>> 135152 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.03 ± 0.33
TOTAL FUSION
54.14 ± 0.33
NORMAL ISOCHRON
54.14 ± 0.37
INVERSE ISOCHRON
54.14 ± 0.37

MSWD (PROBABILITY)
0.41 (92%)

SPREADING FACTOR

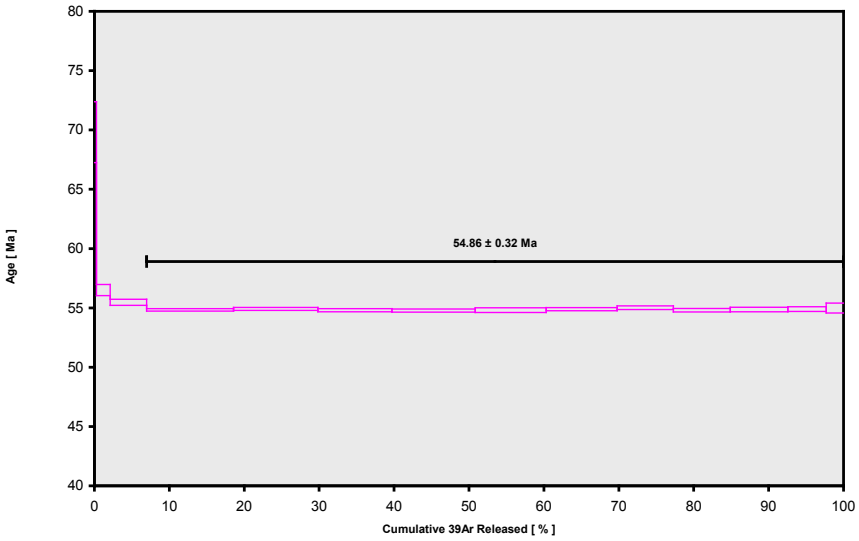
Sample Info

plagioclase
Greenland
jh

IRR = OSU2B12

Sample 410140, tuff, middle Kanísut Mb, Naqerloq Fm, western Nuussuaq

12C3169.AGE >>> 410140 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.86 ± 0.32
TOTAL FUSION
54.96 ± 0.32
NORMAL ISOCHRON
54.92 ± 0.36
INVERSE ISOCHRON
54.86 ± 0.36

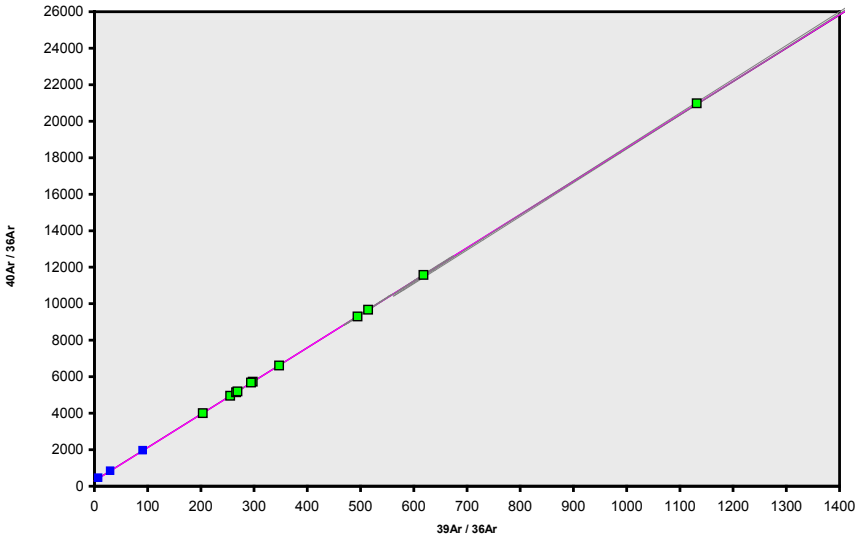
MSWD (PROBABILITY)
0.91 (52%)

Sample Info

feldspar
Greenland
jh

IRR = OSU2B12

12C3169.AGE >>> 410140 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.86 ± 0.32
TOTAL FUSION
54.96 ± 0.32
NORMAL ISOCHRON
54.92 ± 0.36
INVERSE ISOCHRON
54.86 ± 0.36

MSWD (PROBABILITY)
1.08 (38%)

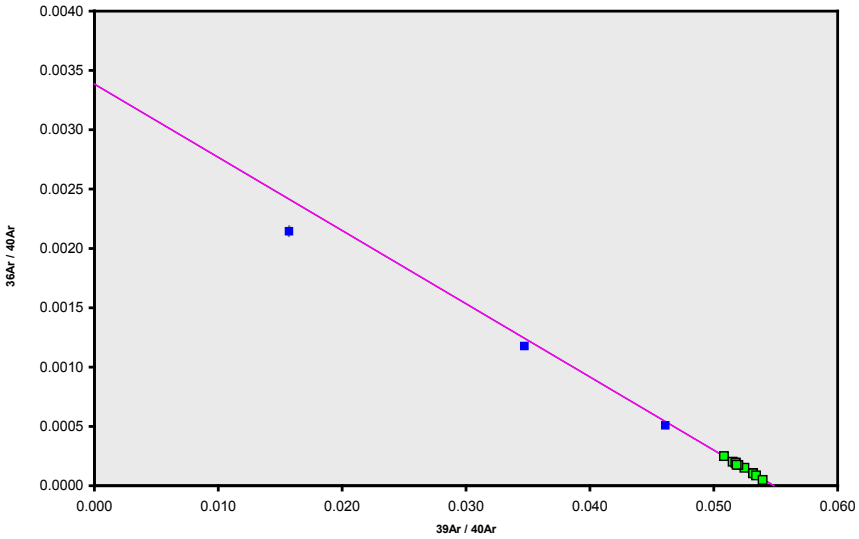
40AR/36AR INTERCEPT

Sample Info

feldspar
Greenland
jh

IRR = OSU2B12

12C3169.AGE >>> 410140 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.86 ± 0.32
TOTAL FUSION
54.96 ± 0.32
NORMAL ISOCHRON
54.92 ± 0.36
INVERSE ISOCHRON
54.86 ± 0.36

MSWD (PROBABILITY)
1.01 (43%)

SPREADING FACTOR

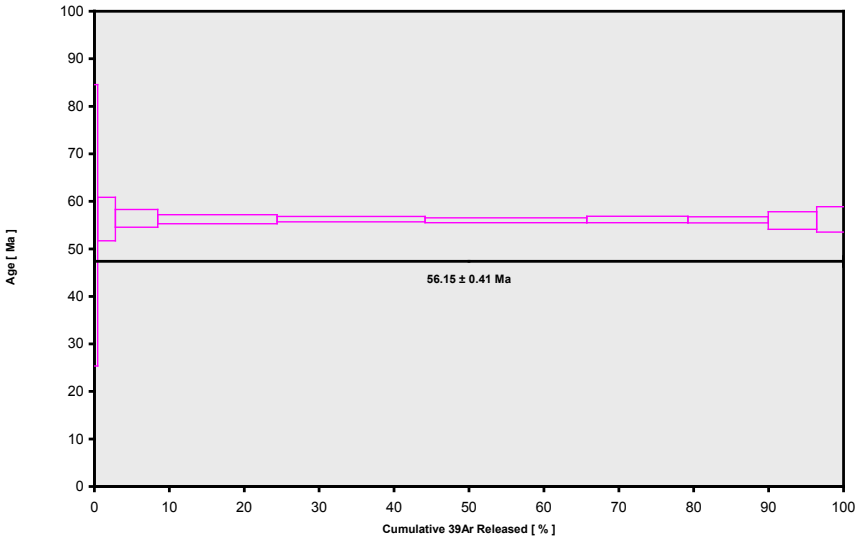
Sample Info

feldspar
Greenland
jh

IRR = OSU2B12

Sample 456257, tuff, lower Kanísut Mb, Naqerloq Fm, Hareøen

12C3187.AGE >>> 456257 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.15 ± 0.41
TOTAL FUSION
56.16 ± 0.47
NORMAL ISOCHRON
56.25 ± 0.38
INVERSE ISOCHRON
56.15 ± 0.42

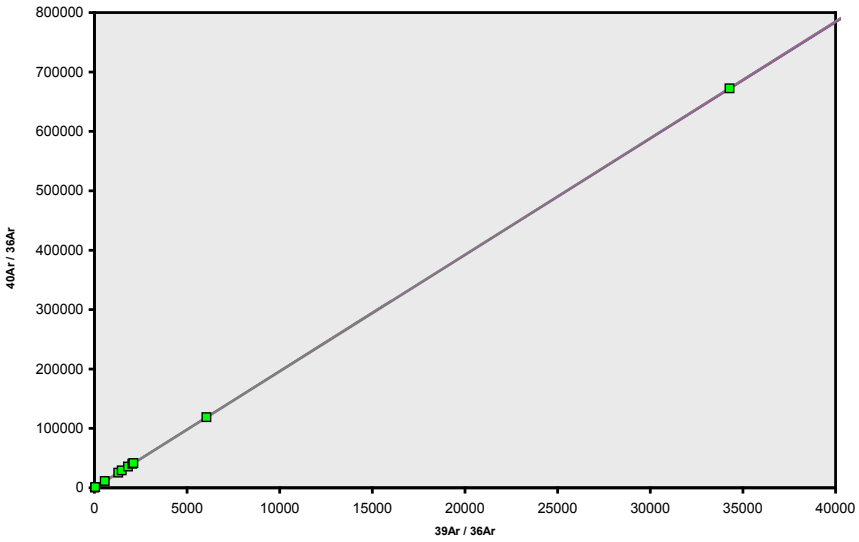
MSWD (PROBABILITY)
0.06 (100%)

Sample Info

plagioclase
Greenland
jh

IRR = OSU2B12

12C3187.AGE >>> 456257 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.15 ± 0.41
TOTAL FUSION
56.16 ± 0.47
NORMAL ISOCHRON
56.25 ± 0.38
INVERSE ISOCHRON
56.15 ± 0.42

MSWD (PROBABILITY)
0.32 (96%)

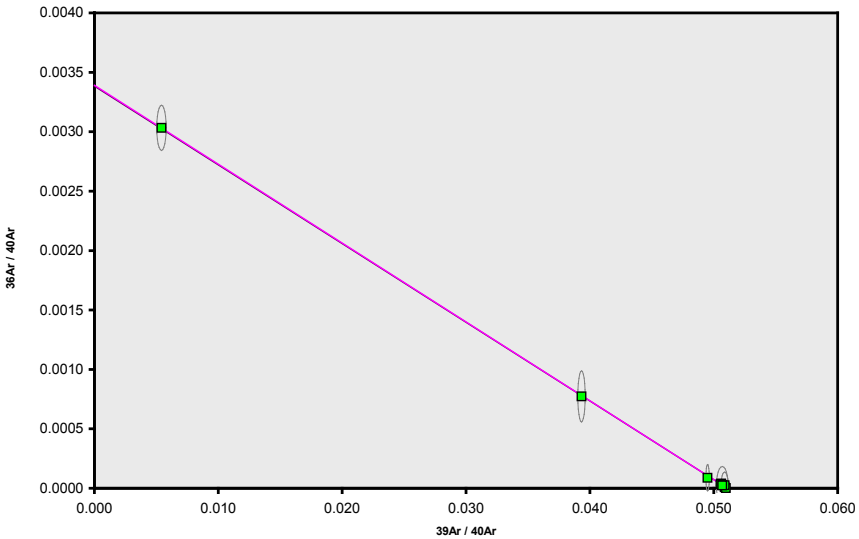
40AR/36AR INTERCEPT

Sample Info

plagioclase
Greenland
jh

IRR = OSU2B12

12C3187.AGE >>> 456257 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.15 ± 0.41
TOTAL FUSION
56.16 ± 0.47
NORMAL ISOCHRON
56.25 ± 0.38
INVERSE ISOCHRON
56.15 ± 0.42

MSWD (PROBABILITY)
0.06 (100%)

SPREADING FACTOR

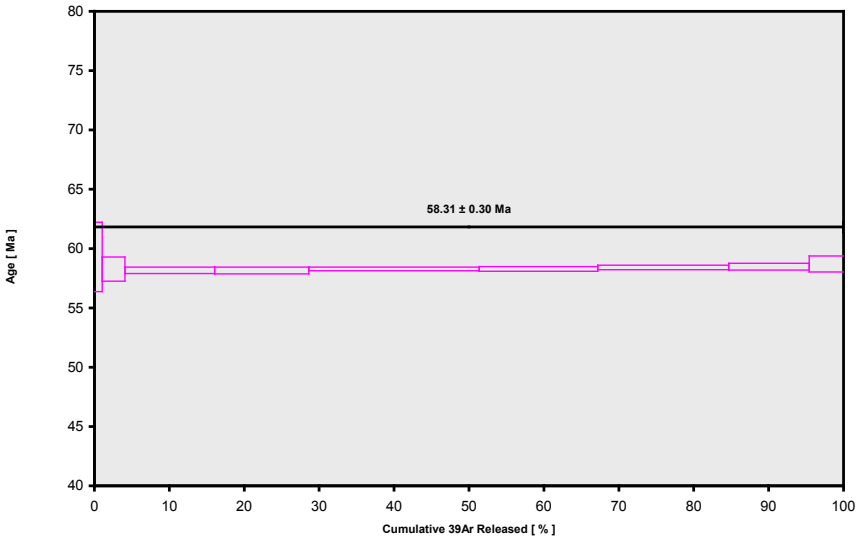
Sample Info

plagioclase
Greenland
jh

IRR = OSU2B12

Sample 489172, tuff, upper Ifsorisok Mb, Svartenhuk Fm, western Nuussuaq

13C3725.AGE >>> 489172 LARSEN 6C15-13 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.31 ± 0.30
TOTAL FUSION
58.33 ± 0.30
NORMAL ISOCHRON
58.74 ± 0.43
INVERSE ISOCHRON
58.39 ± 0.35

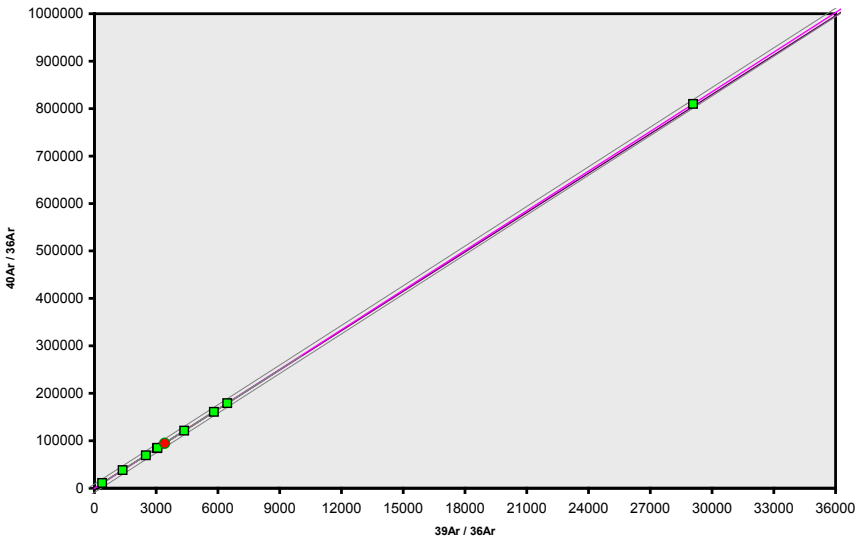
MSWD (PROBABILITY)
0.83 (57%)

Sample Info

Kspar
West Greenland
Trevor Smith

IRR = OSU6C13

13C3725.AGE >>> 489172 LARSEN 6C15-13 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.31 ± 0.30
TOTAL FUSION
58.33 ± 0.30
NORMAL ISOCHRON
58.74 ± 0.43
INVERSE ISOCHRON
58.39 ± 0.35

MSWD (PROBABILITY)
1.92 (6%)

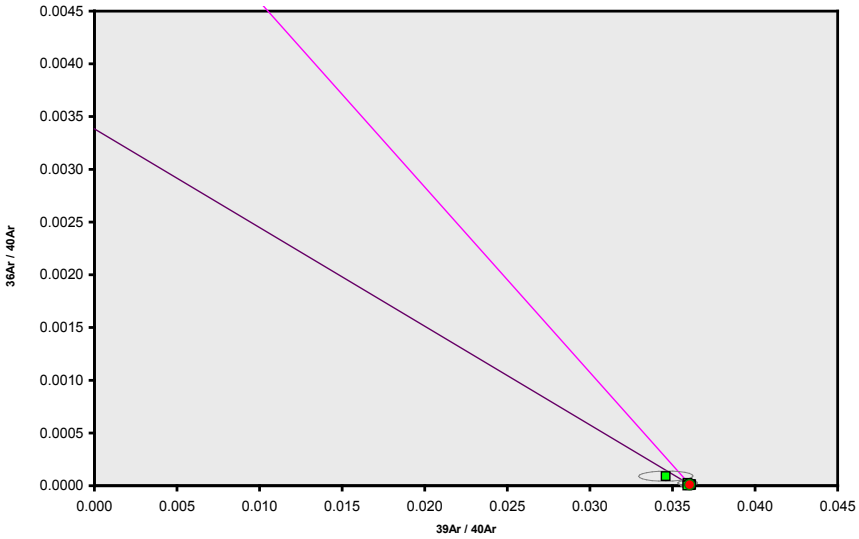
40AR/36AR INTERCEPT

Sample Info

Kspar
West Greenland
Trevor Smith

IRR = OSU6C13

13C3725.AGE >>> 489172 LARSEN 6C15-13 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.31 ± 0.30
TOTAL FUSION
58.33 ± 0.30
NORMAL ISOCHRON
58.74 ± 0.43
INVERSE ISOCHRON
58.39 ± 0.35

MSWD (PROBABILITY)
0.87 (53%)

SPREADING FACTOR

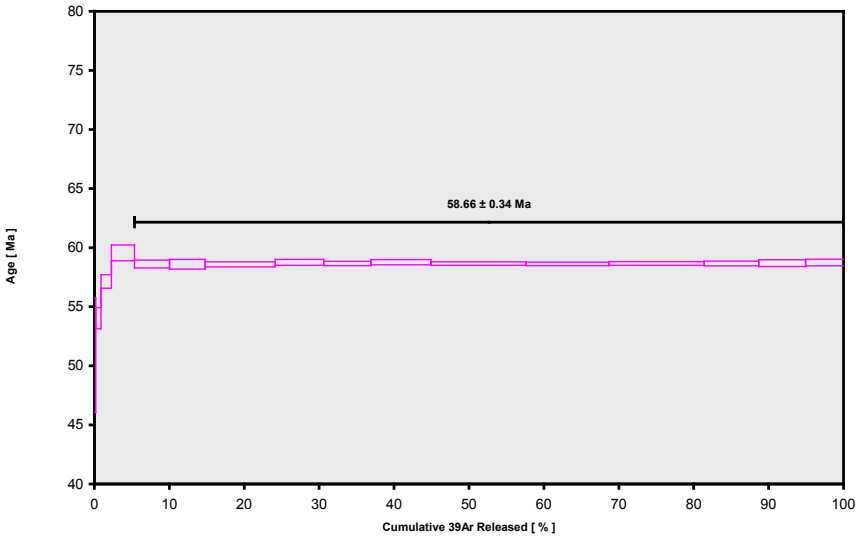
Sample Info

Kspar
West Greenland
Trevor Smith

IRR = OSU6C13

Sample 489165, tuff, middle Ifsorisok Mb, Svartenhuk Fm, western Nuussuaq

12C3201.AGE >>> 489165 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.66 ± 0.34
TOTAL FUSION
58.62 ± 0.34
NORMAL ISOCHRON
58.76 ± 0.36
INVERSE ISOCHRON
58.66 ± 0.37

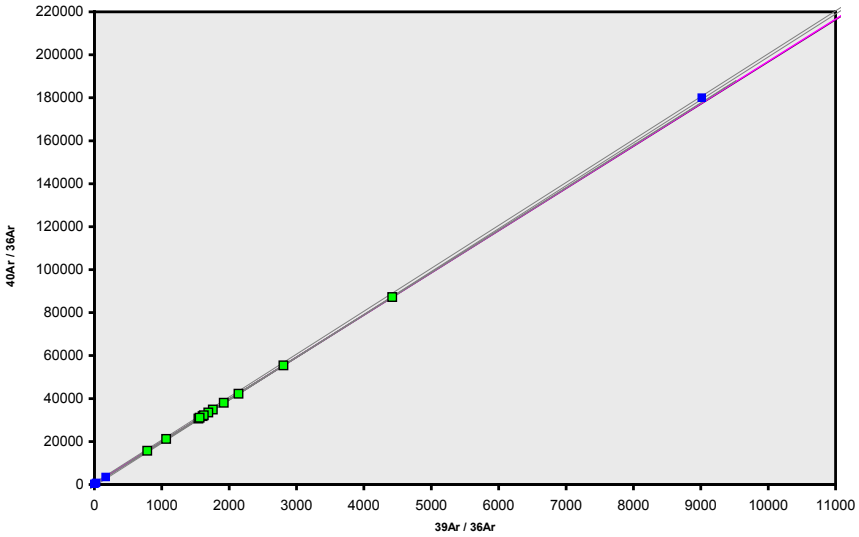
MSWD (PROBABILITY)
0.25 (99%)

Sample Info

feldspar
Greenland
jh

IRR = OSU2B12

12C3201.AGE >>> 489165 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.66 ± 0.34
TOTAL FUSION
58.62 ± 0.34
NORMAL ISOCHRON
58.76 ± 0.36
INVERSE ISOCHRON
58.66 ± 0.37

MSWD (PROBABILITY)
0.60 (81%)

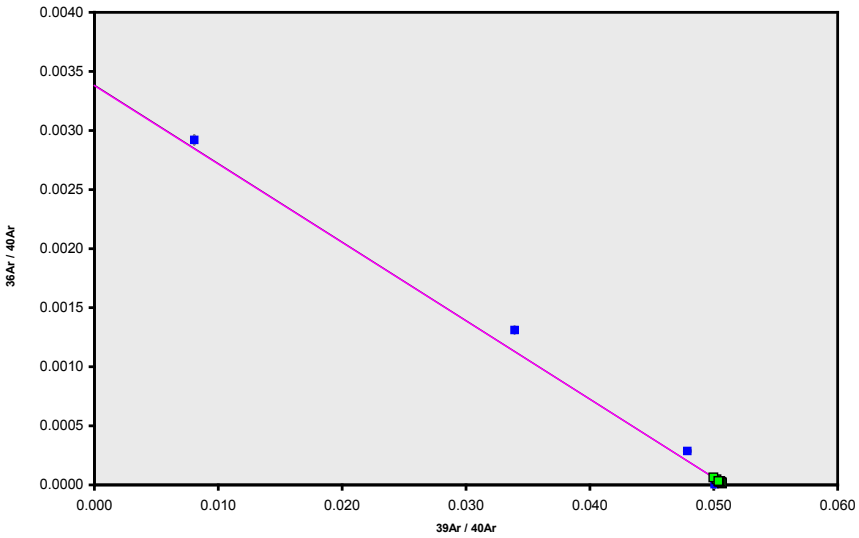
40AR/36AR INTERCEPT

Sample Info

feldspar
Greenland
jh

IRR = OSU2B12

12C3201.AGE >>> 489165 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
58.66 ± 0.34
TOTAL FUSION
58.62 ± 0.34
NORMAL ISOCHRON
58.76 ± 0.36
INVERSE ISOCHRON
58.66 ± 0.37

MSWD (PROBABILITY)
0.27 (99%)

SPREADING FACTOR

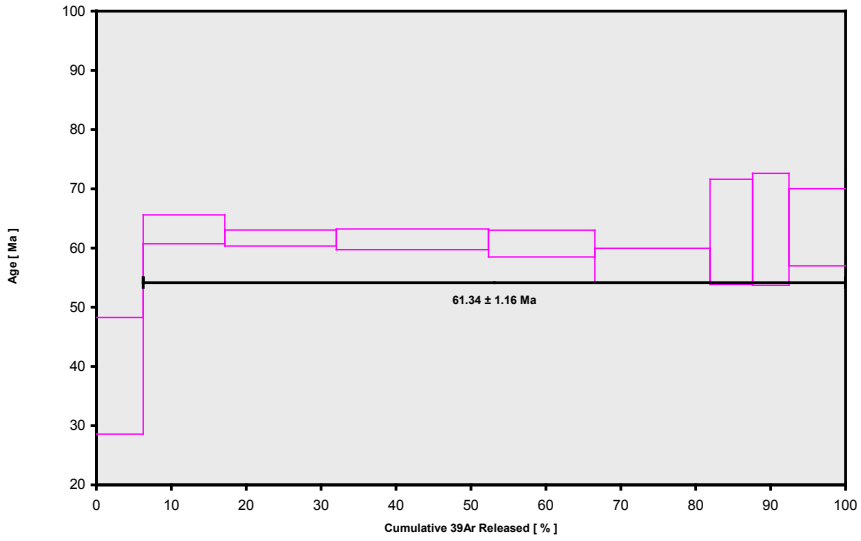
Sample Info

feldspar
Greenland
jh

IRR = OSU2B12

Sample 02A-00-0431, lava flow, Hellefisk-1 well, 2889.5 m below rotary table

13C0261.AGE >>> 02-A-00-0431 GM LARSEN 2B12-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
61.34 ± 1.16
TOTAL FUSION
59.78 ± 1.31
NORMAL ISOCHRON
60.67 ± 1.72
INVERSE ISOCHRON
60.77 ± 1.63

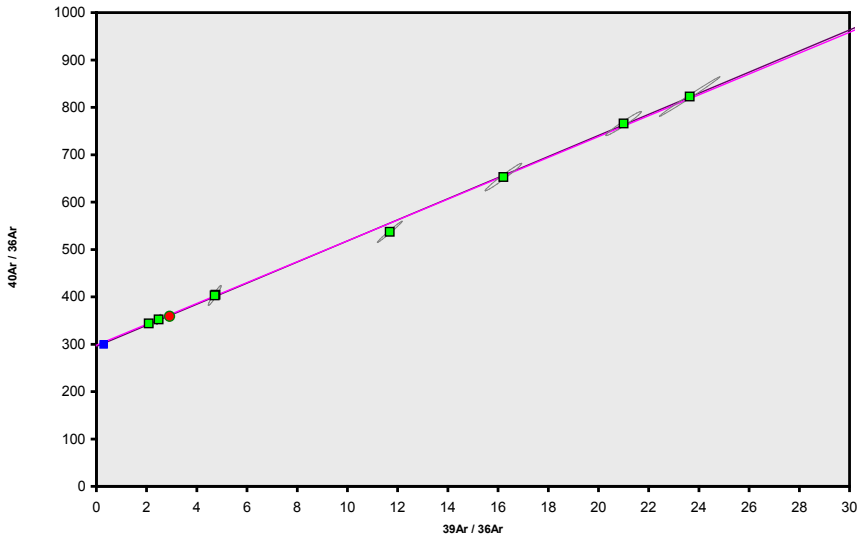
MSWD (PROBABILITY)
1.74 (10%)

Sample Info

gm
Jeju
rd

IRR = OSU2B12

13C0261.AGE >>> 02-A-00-0431 GM LARSEN 2B12-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
61.34 ± 1.16
TOTAL FUSION
59.78 ± 1.31
NORMAL ISOCHRON
60.67 ± 1.72
INVERSE ISOCHRON
60.77 ± 1.63

MSWD (PROBABILITY)
1.91 (7%)

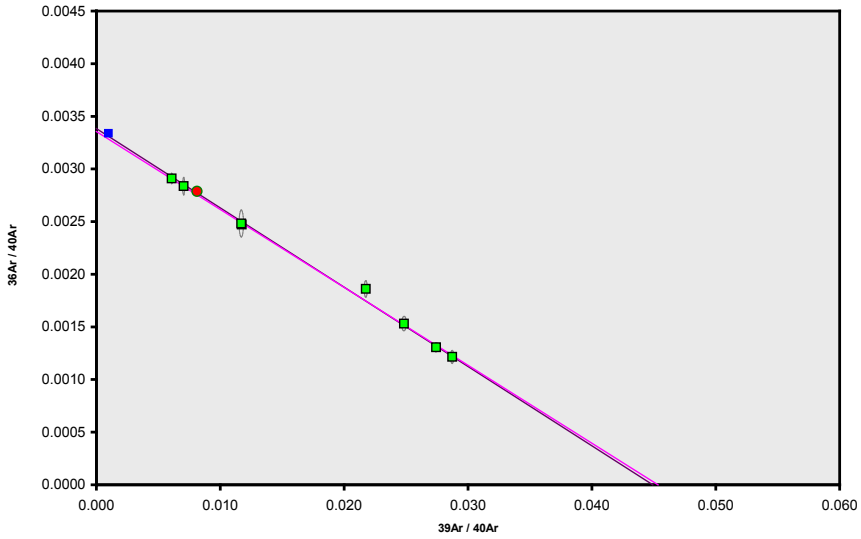
40AR/36AR

Sample Info

gm
Jeju
rd

IRR = OSU2B12

13C0261.AGE >>> 02-A-00-0431 GM LARSEN 2B12-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
61.34 ± 1.16
TOTAL FUSION
59.78 ± 1.31
NORMAL ISOCHRON
60.67 ± 1.72
INVERSE ISOCHRON
60.77 ± 1.63

MSWD (PROBABILITY)
1.73 (11%)

SPREADING FACTOR

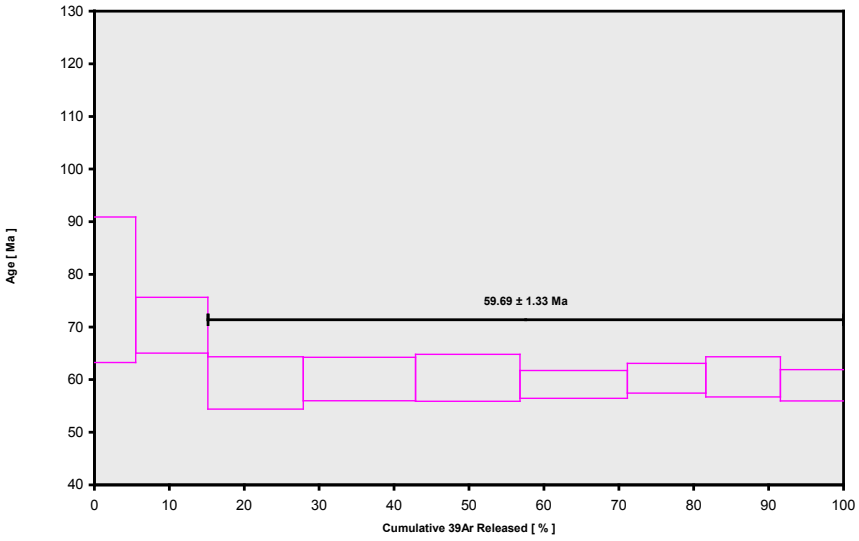
Sample Info

gm
Jeju
rd

IRR = OSU2B12

Sample 02A-00-0447, lava flow, Hellefisk-1 well, 2938.3 m below rotary table

13C0273.AGE >>> 02-A-00-0447 GM LARSEN 2B11-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.69 ± 1.33
TOTAL FUSION
61.79 ± 1.60
NORMAL ISOCHRON
59.93 ± 1.99
INVERSE ISOCHRON
59.95 ± 2.00

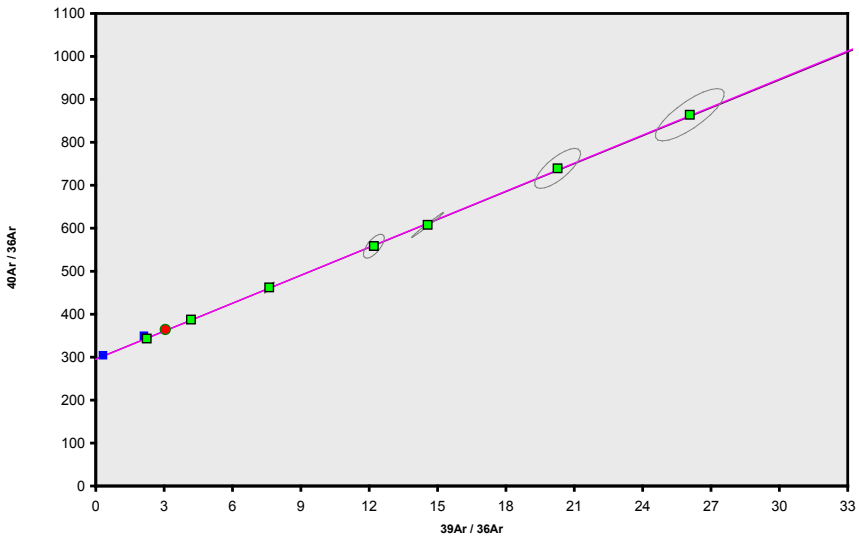
MSWD (PROBABILITY)
0.16 (99%)

Sample Info

gm
Greenland
rd

IRR = OSU2B12

13C0273.AGE >>> 02-A-00-0447 GM LARSEN 2B11-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.69 ± 1.33
TOTAL FUSION
61.79 ± 1.60
NORMAL ISOCHRON
59.93 ± 1.99
INVERSE ISOCHRON
59.95 ± 2.00

MSWD (PROBABILITY)
0.17 (97%)

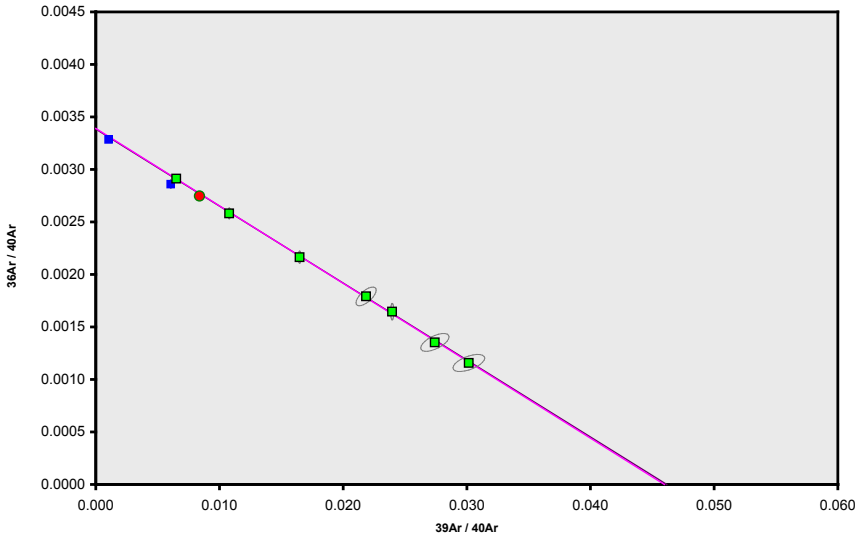
40AR/36AR

Sample Info

gm
Greenland
rd

IRR = OSU2B12

13C0273.AGE >>> 02-A-00-0447 GM LARSEN 2B11-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.69 ± 1.33
TOTAL FUSION
61.79 ± 1.60
NORMAL ISOCHRON
59.93 ± 1.99
INVERSE ISOCHRON
59.95 ± 2.00

MSWD (PROBABILITY)
0.17 (97%)

SPREADING FACTOR

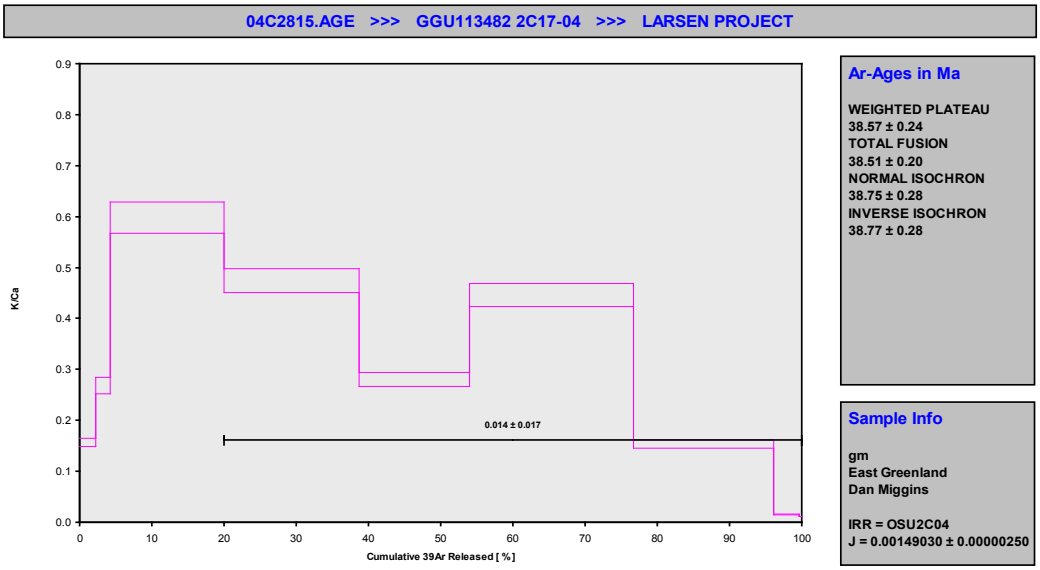
Sample Info

gm
Greenland
rd

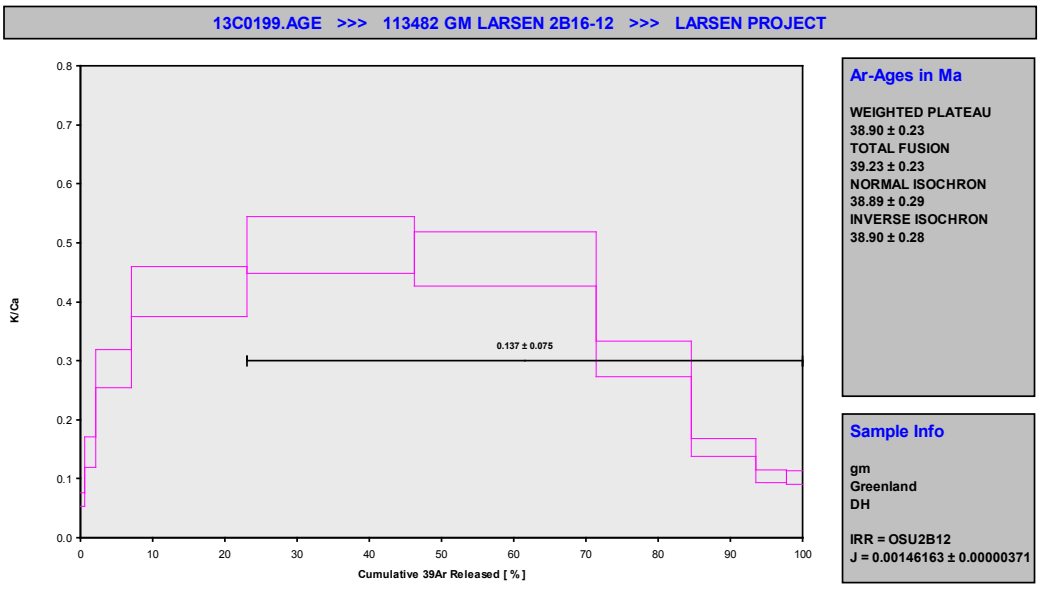
IRR = OSU2B12

K/Ca ratios

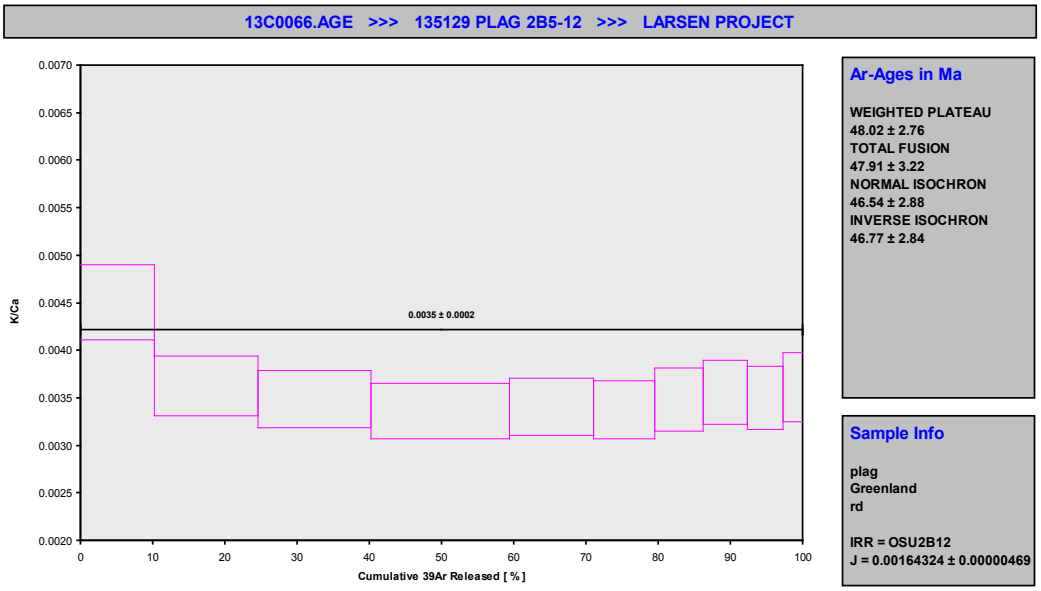
Sample 113482 (2004 analysis), lava flow, Talerua Member, Hareøen



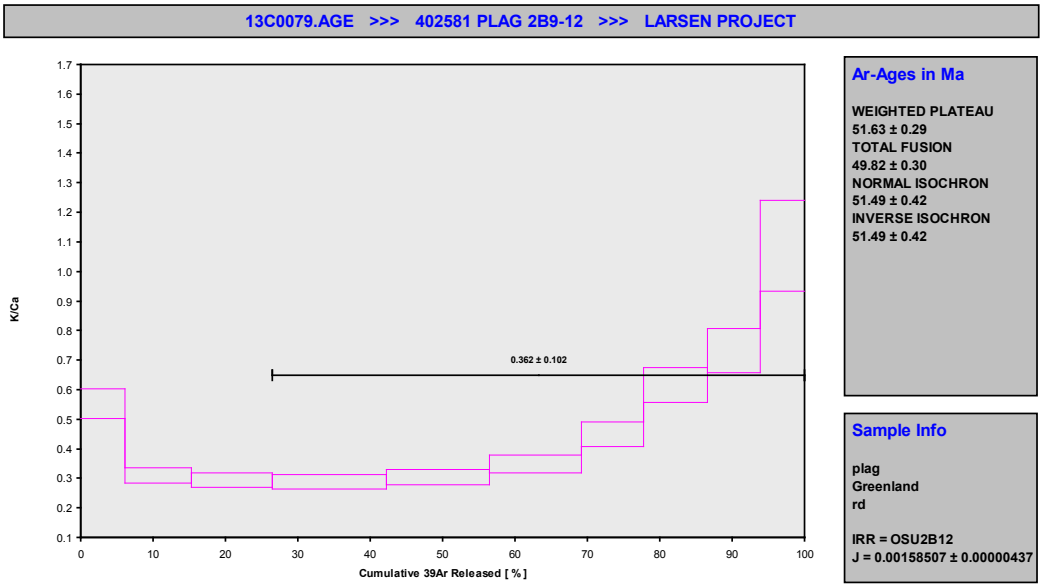
Sample 113482 (2013 analysis), lava flow, Talerua Member, Hareøen



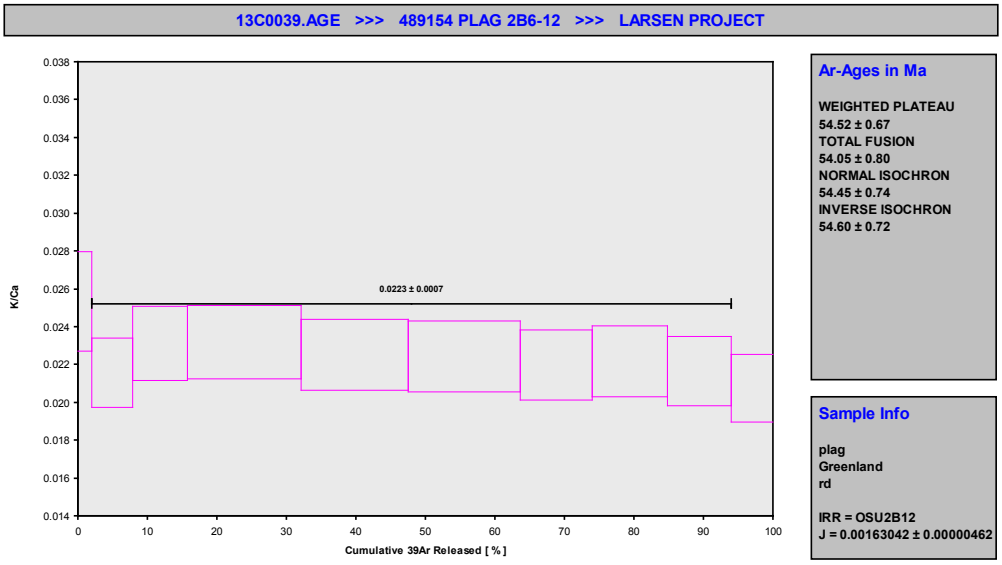
Sample 135129, dyke, westernmost Nuussuaq



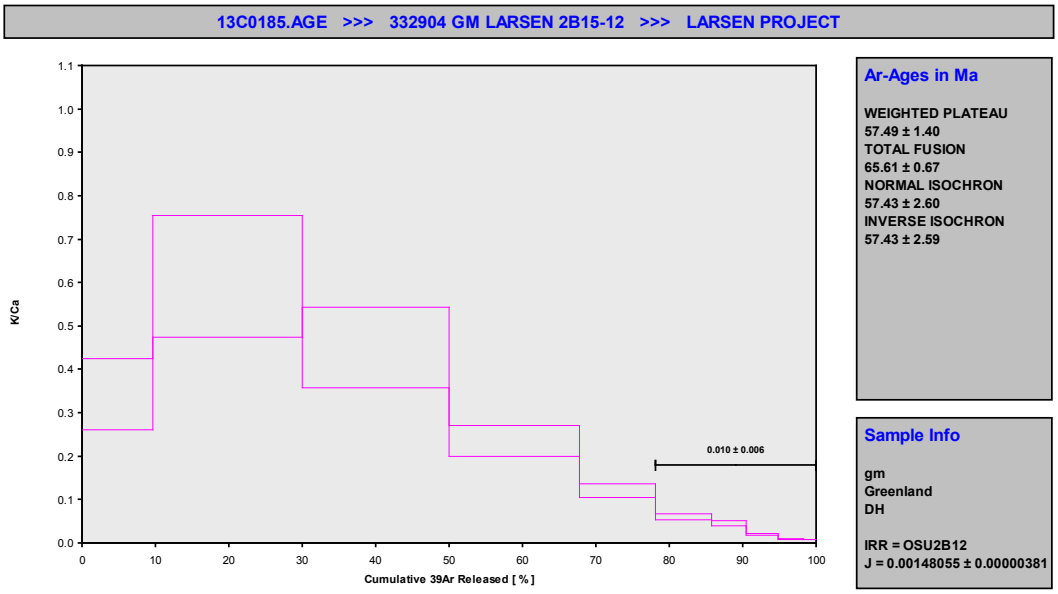
Sample 402581, pegmatite in top of Qaarsut sill, northern Nuussuaq



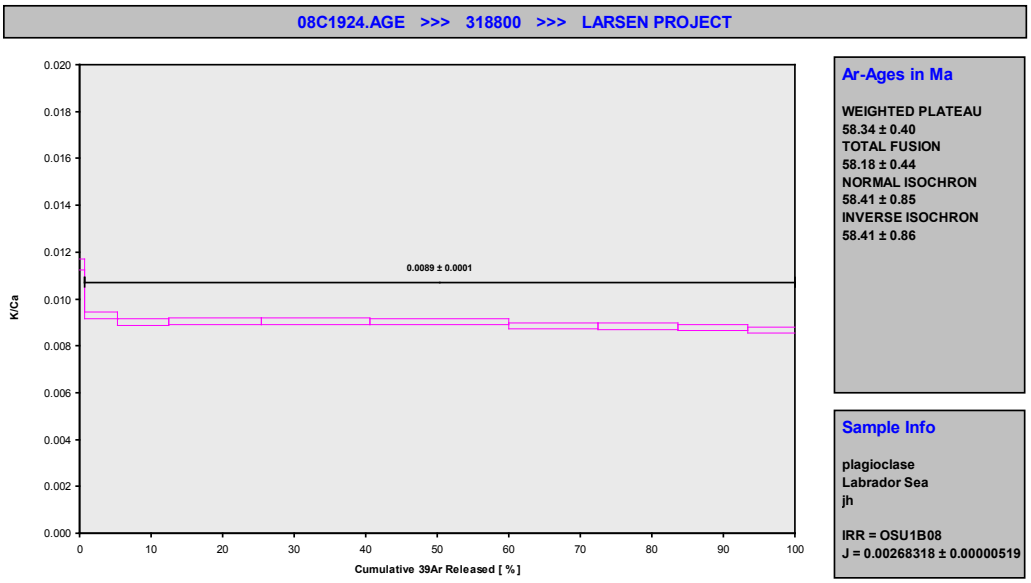
Sample 489154, alkaline sill near Qaarsut, northern Nuussuaq



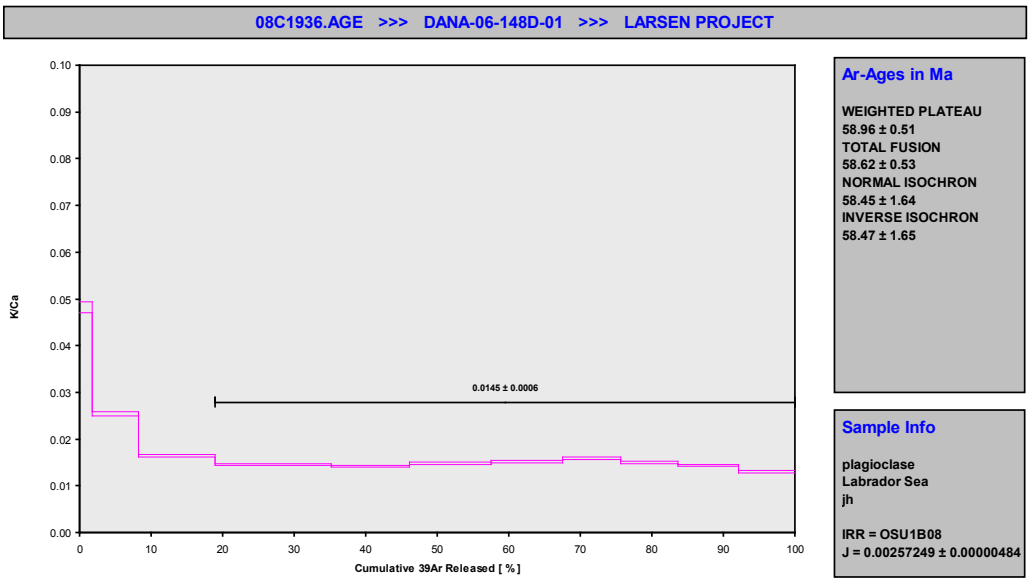
Sample 332904, dyke, northern Disko



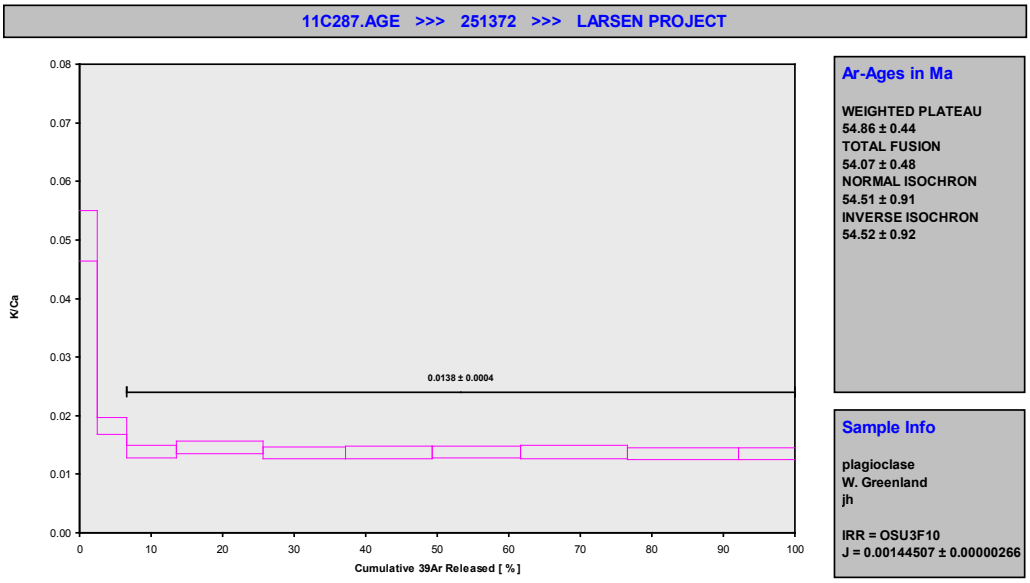
Sample 318800, dyke, eastern Disko



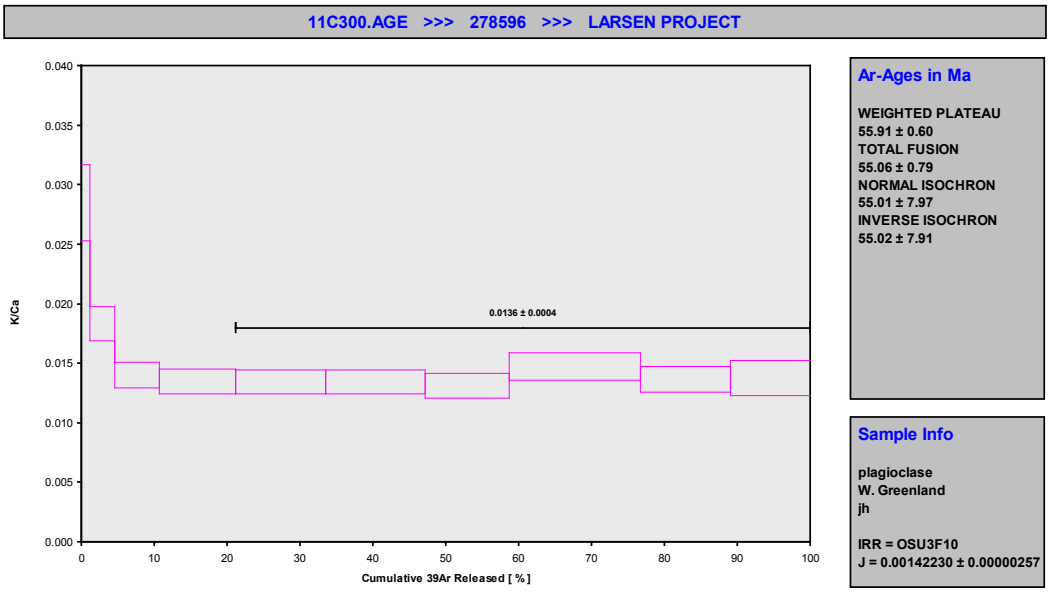
Sample Dana-06-148D-01, gabbro dredged south-east of Disko



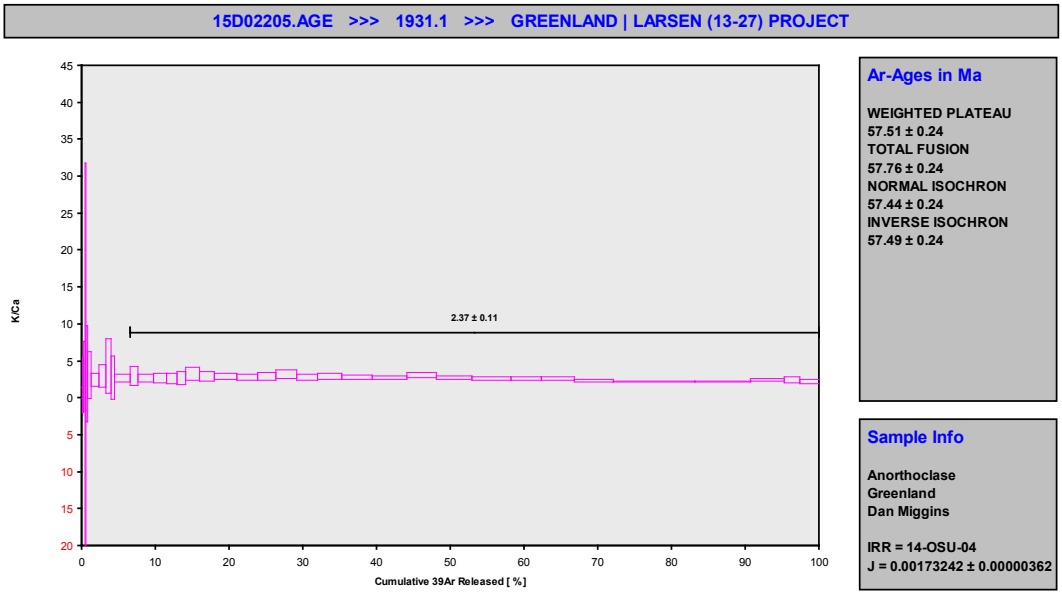
Sample 251372, lava flow, Naqerloq Fm, Svartenhuk Halvø



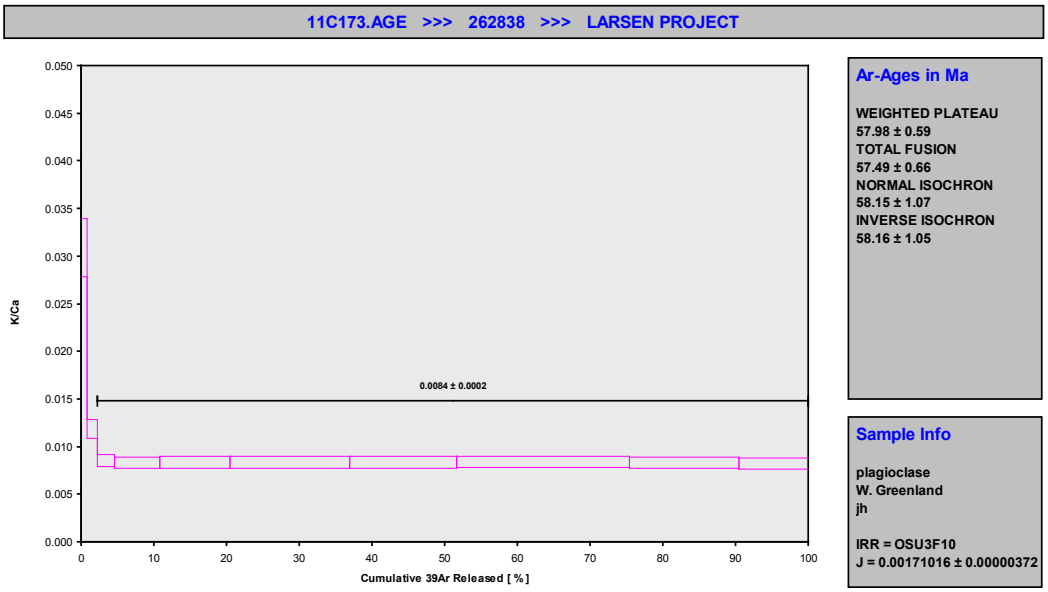
Sample 278596, lava flow, Naqerloq Fm, Svartenhuk Halvø



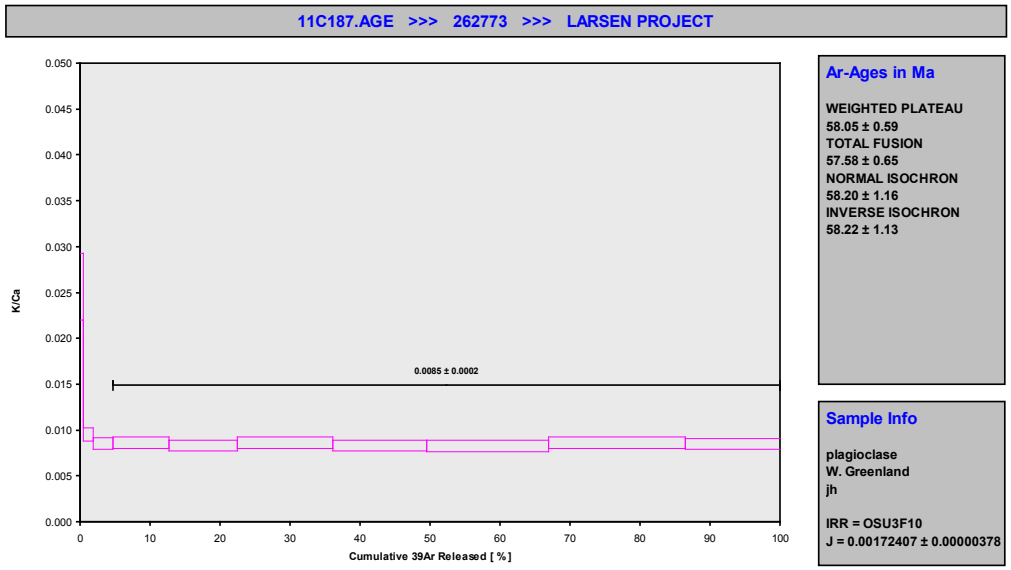
Sample 1931.1, Arfertuarsuk trachyte flow, Svartenhuk Halvø



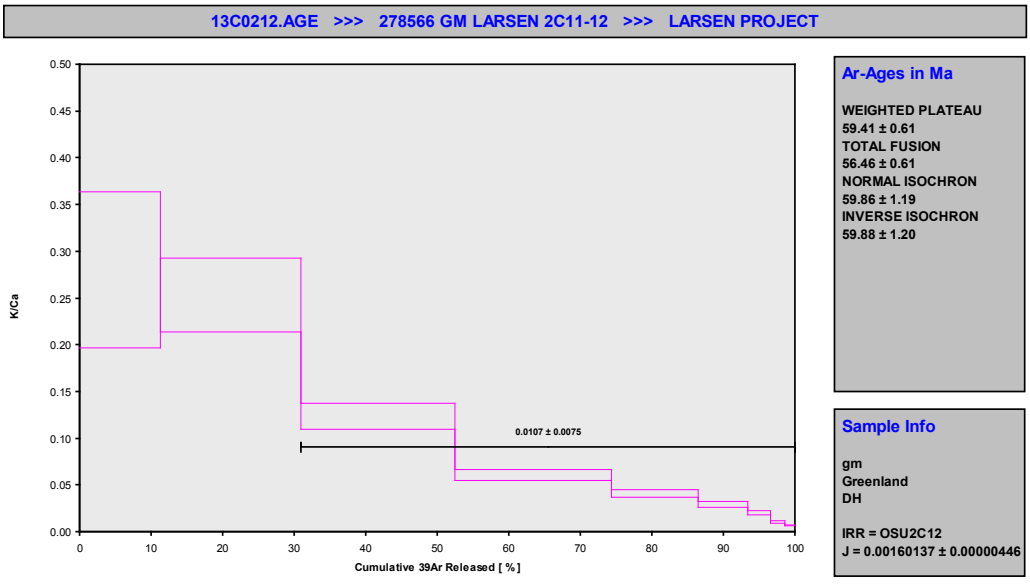
Sample 262838, lava flow, Skalø Mb, Svartenhuk Fm, Svartenhuk Halvø



Sample 262773, lava flow, Nuuit Mb, Svartenhuk Fm, Svartenhuk Halvø

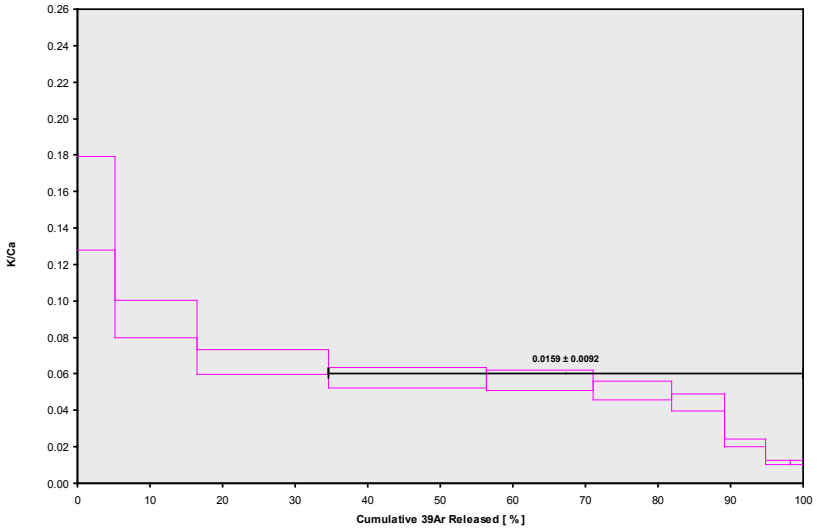


Sample 278566, lava flow, Tunuarsuk Mb, Svartenhuk Fm, Svartenhuk Halvø



Sample 278578, lava flow, Tunuarsuk Mb, Svartenhuk Fm, Svartenhuk Halvø

13C0224.AGE >>> 278578 GM LARSEN 2C12-12 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
60.31 ± 1.39
TOTAL FUSION
51.92 ± 1.09
NORMAL ISOCHRON
62.57 ± 9.15
INVERSE ISOCHRON
62.85 ± 8.96

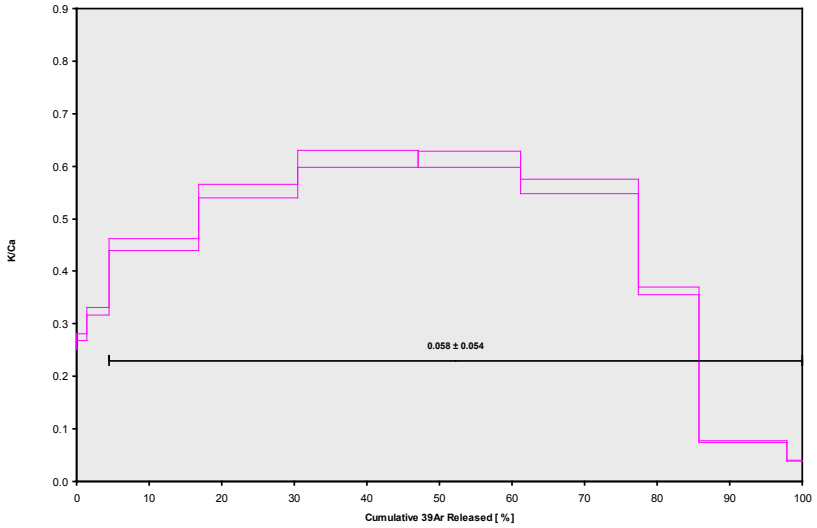
Sample Info

gm
Greenland
rd

IRR = OSU2C12
J = 0.00158714 ± 0.00000438

Sample 438728, lava flow, Erqua Formation, Ubekendt Ejland

99C0272.AGE >>> GGU 438728 5C5-98 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
53.47 ± 0.52
TOTAL FUSION
53.68 ± 0.45
NORMAL ISOCHRON
52.15 ± 0.83
INVERSE ISOCHRON
53.05 ± 0.62

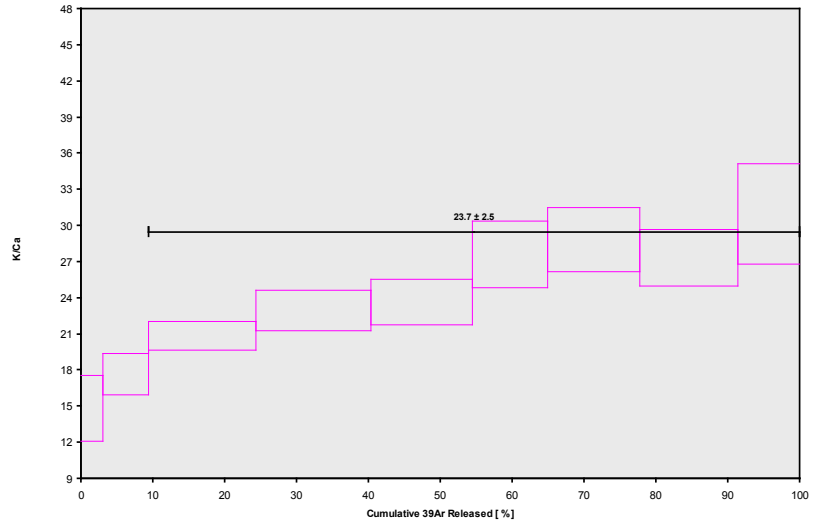
Sample Info

whole rock
Greenland
Bob Duncan

IRR = OSU5A98
J = 0.00173269 ± 0.00000295

Sample 417747, granophyre, Sarqâta qáqâ complex, Ubekendt Ejland

13C3739.AGE >>> 417747 LARSEN 6C13-13 >>> LARSEN PROJECT



Ar-Ages in Ma

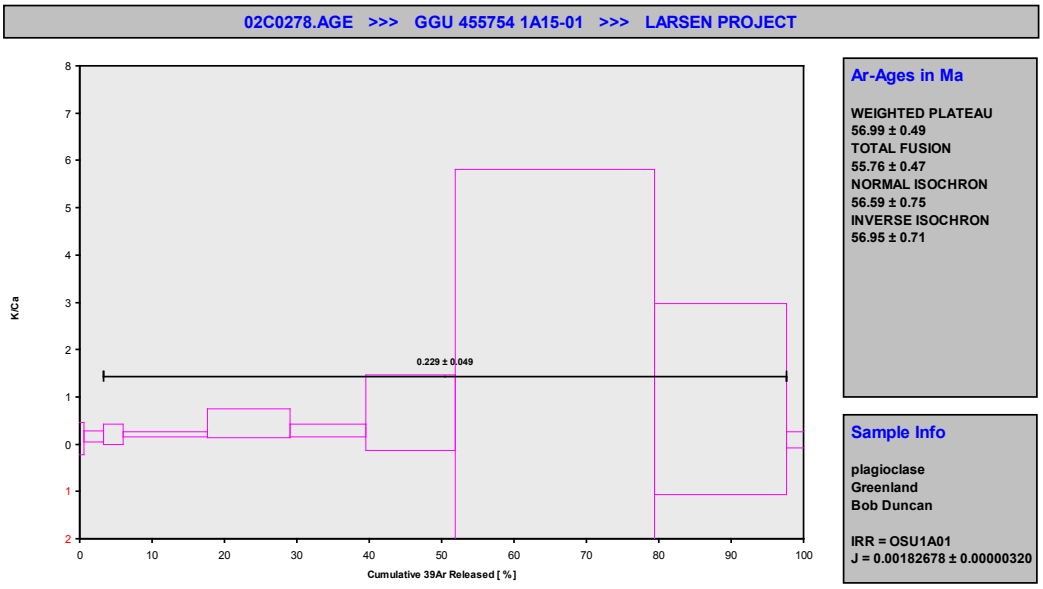
WEIGHTED PLATEAU
55.21 ± 0.30
TOTAL FUSION
55.23 ± 0.29
NORMAL ISOCHRON
54.97 ± 0.34
INVERSE ISOCHRON
54.97 ± 0.34

Sample Info

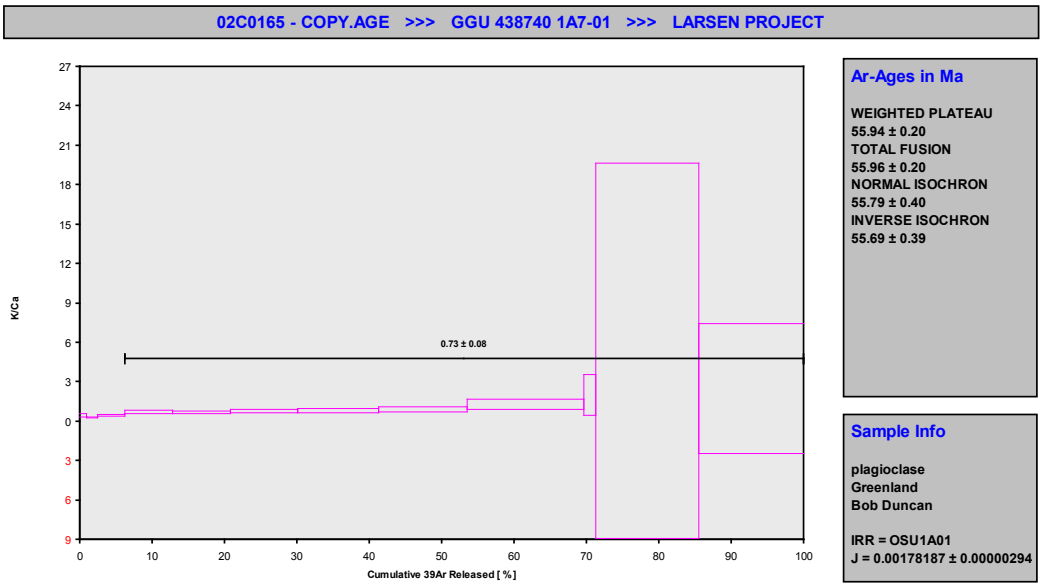
Kspar
West Greenland
Trevor Smith

IRR = OSU6C13
J = 0.00122818 ± 0.00000318

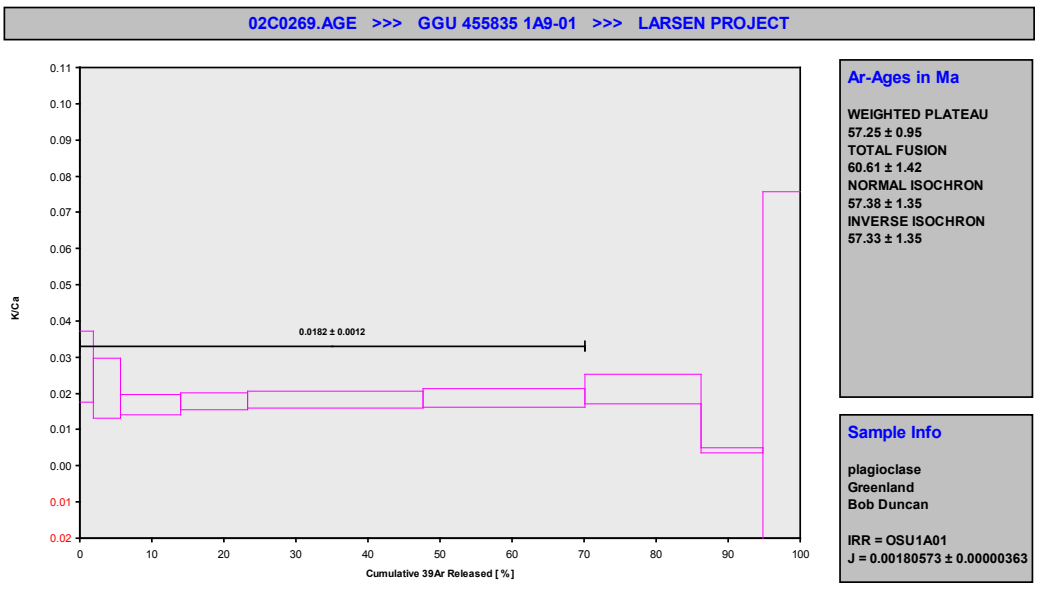
Sample 455754, gabbro, Sarqâta qáqâ complex, Ubekendt Ejland



Sample 438740, lava flow, Nûk takisôq Mb, Naqerloq Fm, Ubekendt Ejland

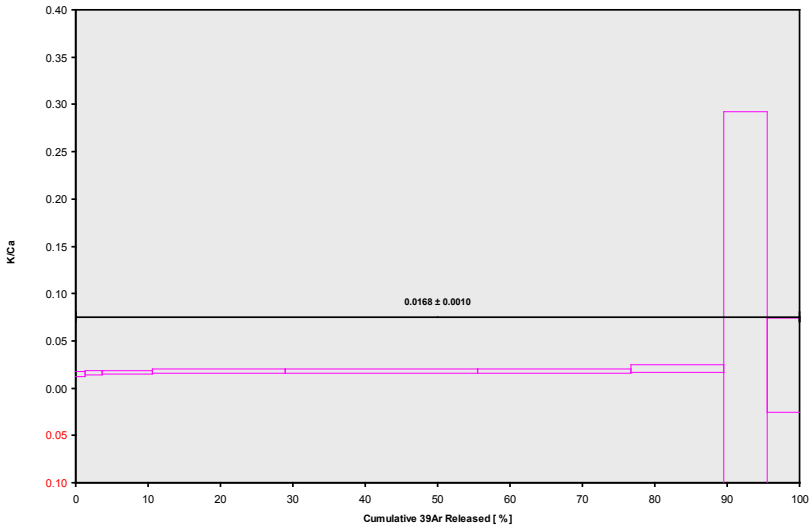


Sample 455835, lava flow, Nûk takisôq Mb, Naqerloq Fm, Ubekendt Ejland



Sample 455877, lava flow, Qeqertalik Mb, Svartenhuk Fm, Ubekendt Ejland

02C0178.AGE >>> GGU 455877 1A8-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
60.53 ± 1.79
TOTAL FUSION
69.66 ± 1.11
NORMAL ISOCHRON
59.19 ± 1.78
INVERSE ISOCHRON
59.50 ± 1.71

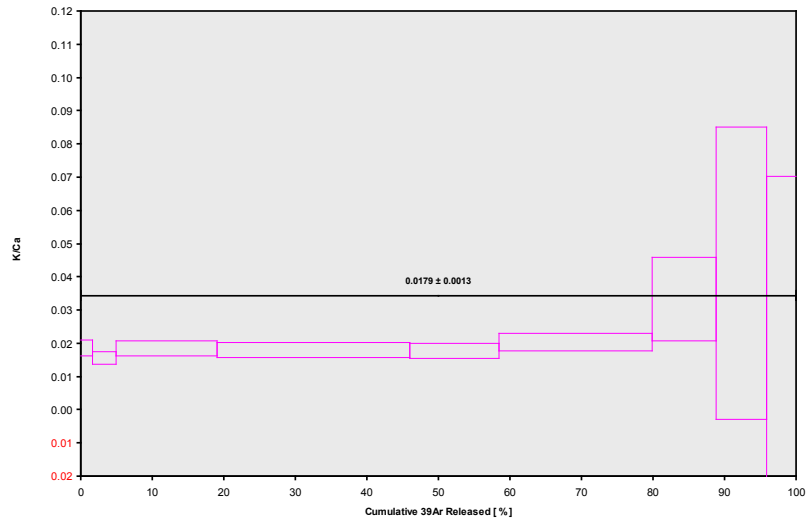
Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01
J = 0.00179483 ± 0.00000328

Sample 455809, lava flow, Qeqertalik Mb, Svartenhuk Fm, Ubekendt Ejland

02C0193.AGE >>> GGU 455809 1A12-01 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
59.97 ± 0.89
TOTAL FUSION
59.90 ± 1.03
NORMAL ISOCHRON
58.95 ± 1.84
INVERSE ISOCHRON
58.98 ± 1.88

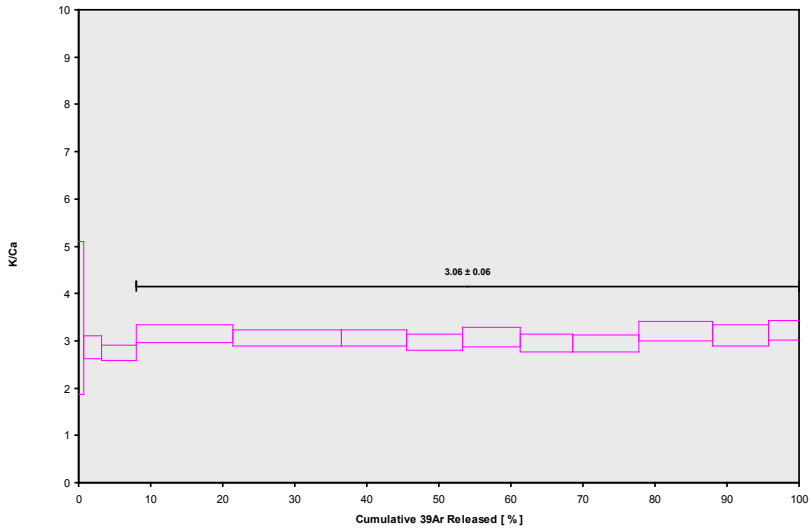
Sample Info

plagioclase
Greenland
Bob Duncan

IRR = OSU1A01
J = 0.00182129 ± 0.00000301

Sample 135152, tuff, upper Kanísut Mb, Naqerloq Fm, western Nuussuaq

12C3150.AGE >>> 135152 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.03 ± 0.33
TOTAL FUSION
54.14 ± 0.33
NORMAL ISOCHRON
54.14 ± 0.37
INVERSE ISOCHRON
54.14 ± 0.37

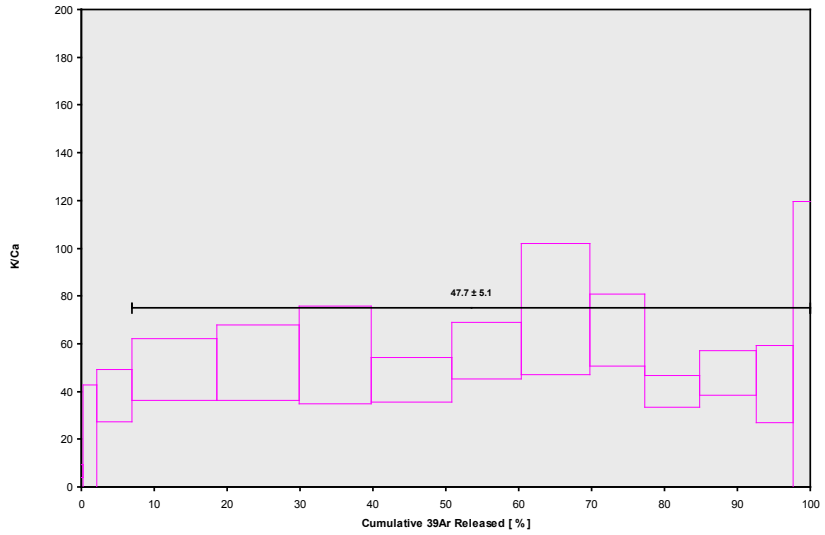
Sample Info

plagioclase
Greenland
jh

IRR = OSU2B12
J = 0.00167061 ± 0.00000485

Sample 410140, tuff, middle Kanísut Mb, Naqerloq Fm, western Nuussuaq

12C3169.AGE >>> 410140 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
54.86 ± 0.32
TOTAL FUSION
54.96 ± 0.32
NORMAL ISOCHRON
54.92 ± 0.36
INVERSE ISOCHRON
54.86 ± 0.36

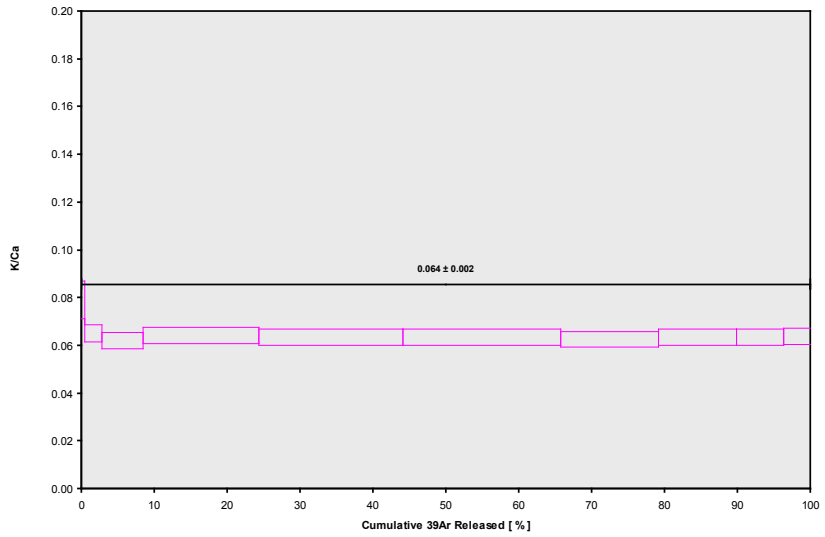
Sample Info

feldspar
Greenland
jh

IRR = OSU2B12
J = 0.00169359 ± 0.00000499

Sample 456257, tuff, lower Kanísut Mb, Naqerloq Fm, Hareøen

12C3187.AGE >>> 456257 >>> LARSEN PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
56.15 ± 0.41
TOTAL FUSION
56.16 ± 0.47
NORMAL ISOCHRON
56.25 ± 0.38
INVERSE ISOCHRON
56.15 ± 0.42

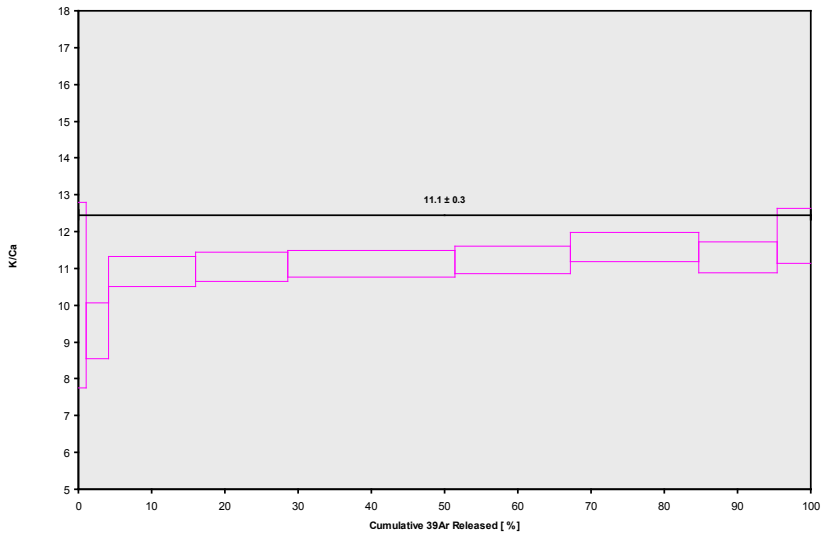
Sample Info

plagioclase
Greenland
jh

IRR = OSU2B12
J = 0.00161518 ± 0.00000454

Sample 489172, tuff, upper Ifsorisok Mb, Svartenhuk Fm, western Nuussuaq

13C3725.AGE >>> 489172 LARSEN 6C15-13 >>> LARSEN PROJECT



Ar-Ages in Ma

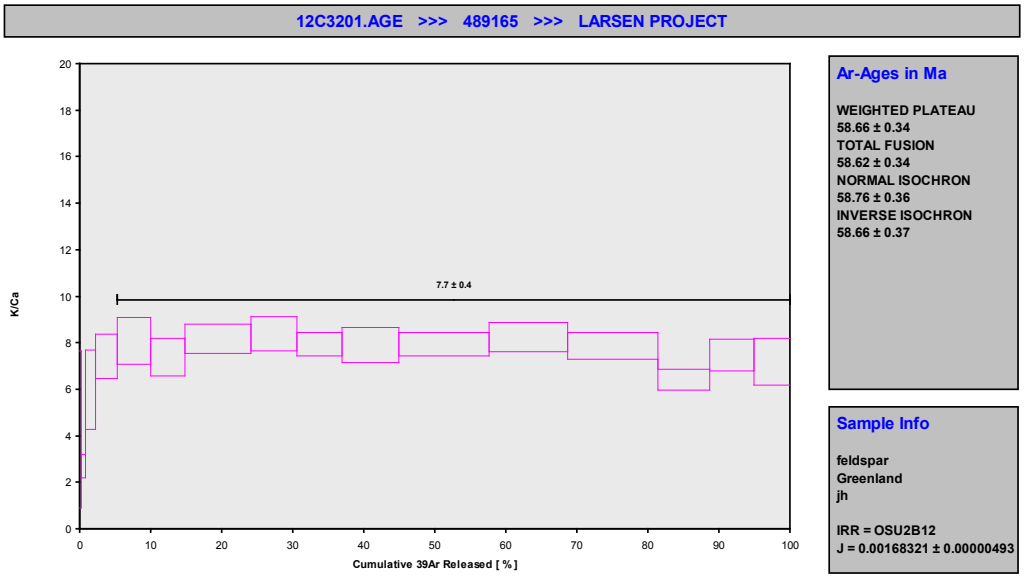
WEIGHTED PLATEAU
58.31 ± 0.30
TOTAL FUSION
58.33 ± 0.30
NORMAL ISOCHRON
58.74 ± 0.43
INVERSE ISOCHRON
58.39 ± 0.35

Sample Info

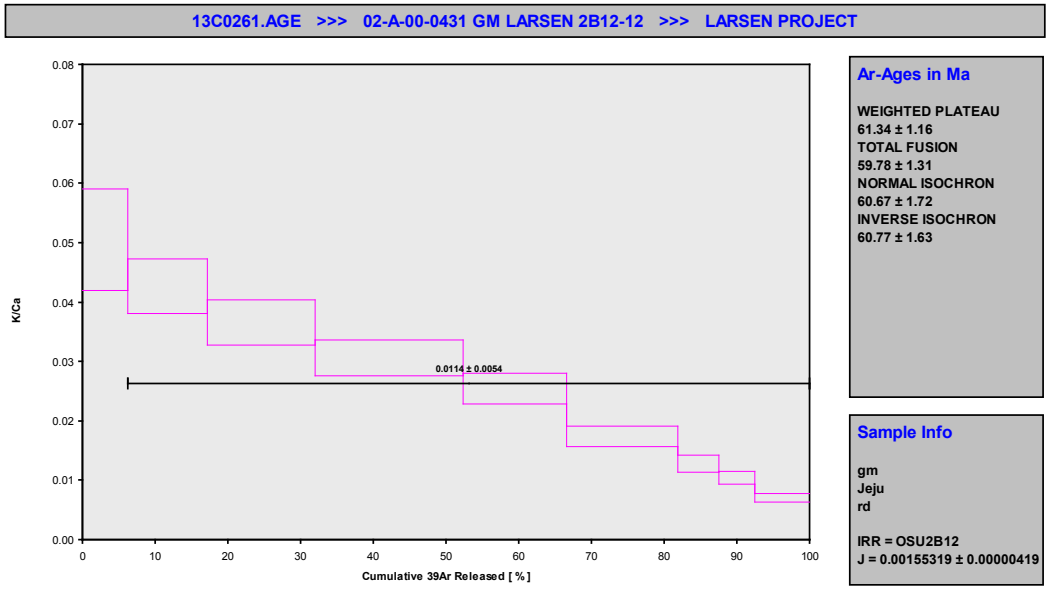
Kspar
West Greenland
Trevor Smith

IRR = OSU6C13
J = 0.00118802 ± 0.00000297

Sample 489165, tuff, middle Ifsorisok Mb, Svartenhuk Fm, western Nuussuaq



Sample 02A-00-0431, lava flow, Hellefisk-1 well, 2889.5 m below rotary table



Sample 02A-00-0447, lava flow, Hellefisk-1 well, 2938.3 m below rotary table