Supplement of Geochronology, 8, 373–386, 2026
https://doi.org/10.5194/gchron-8-373-2026-supplement

Supplement of

Extraction of multiple ages from *c*-axis projected fission tracks

Peter K. Jensen

Correspondence to: Peter K. Jensen (pklje@dtu.dk)

Calculated age nodes based on fission track data from the Canadian Shield (Spiegel et al., 2023b;2023b) is given in Table S1. The deconvolved fission track length histograms are shown in Fig. S1-S25.

Table S1. Calculated age nodes related to deconvolved track length (this study). Rock age is based on stratigraphy given by (Spiegel et al., 2023a) and Geologic Time Scale v. 6.0 (The Geological Society of America). Oldest age (this study), Central age (Spiegel et al., 2023a).

Sample Lithology	Rock age Oldest age Central age	Deconvolved track length	Age nodes	Calibration factor
	Ma	µm	Ma	
C-XI-119 Sandstone	388-393 461 (42) 318 (26)	13	222 (52)	1.22
		12	427 (69)	
C-XI-120 Sandstone	388-393 560 (62) 387 (42)	13	176 (76)	1.15
		12	558 (81)	
C-XI-121 Granite	1600-2500 510 (60) 321 (31)	13	250 (82)	1.15
C-XI-123 Granite	1600-2500 464 (57) 285 (29)	12	410 (62)	1.16

C-XI-124 Sandstone	388-393 322 (24) 236 (108)	13 12	201 (31) 322 (25)	1.16
C-XI-125 Sandstone	383-393 289 (22) 212 (14)	13 12	198 (34) 290 (22)	1.08
C-XI-126 Sandstone	359-383 458 (57) 265 (22)	13 11	164 (92) 458 (57)	1.07
CXII-06 Sandstone	247-252 344 (68) 218 (28)	12	307 (69)	1.22
CXII-13 Granite	1600-2500 214 (17) 160 (11)	13 12	150 (24) 214 (17)	1.06
CXII-14 Granite	1600-2500 339 (27) 235 (18)	13 12	109 (44) 338 (47)	1.3
CXII-20 Sandstone	383-393 730 (230) 533 (151)	13	442 (178)	1.3
CXII-22 Sandstone	359-383 523 (95) 399 (36)	13 12	228(19) 619 (87)	1.13
CXII-25 Migmatite	1600-2500 504 (122) 288 (24)	13 12	153 (41) 350 (55)	1.05
CXII-27 Sandstone	388-393 477 (40) 330 (27)	13 12	265 (55) 436 (59)	1.38
CXII-30 Sandstone	56-59 507 (44) 363 (30)	13 12	257 (74) 507 (44)	1.5

CXII-36 Orthogneiss	1600-2500 739 (101) 530 (66)	13 12	377 (106) 739 (101)	1.43
CXII-37 Pyroxenite	1600-2500 661 (151) 423 (54)	13	273 (94)	1.21
CXII-42 Sandstone	388-393 431 (57) 280 (22)	13 12	183 (37) 357 (61)	1.26
CXII-46 Sandstone	359-383 521 (77) 386 (28)	14 13 12	82(10) 316 (31) 518 (58)	1.66
CXII-48 Sandstone	388-393 528 (62) 373 (37)	13	420 (83)	1.61
GRÖ21 Gneiss	2500-4000 173 (25) 99 (9)	13 11	67 (20) 173 (25)	1.02
GRÖ23 Sandstone	541-2500 223 (22) 162 (16)	13 12	136 (23) 223 (22)	1.07
GRÖ36 Schist	2500-4000 204 (32) 146 (20)	13 12	100 (36) 204 (32)	0.931
GRÖ64 Gneiss	2500-4000 315 (47) 160 (11)	13 11	138 (42) 315 (47)	1.004
KP702 Granite	1600-2500 838 (171) 583 (69)	13 12	421 (84) 756 (138)	1.34

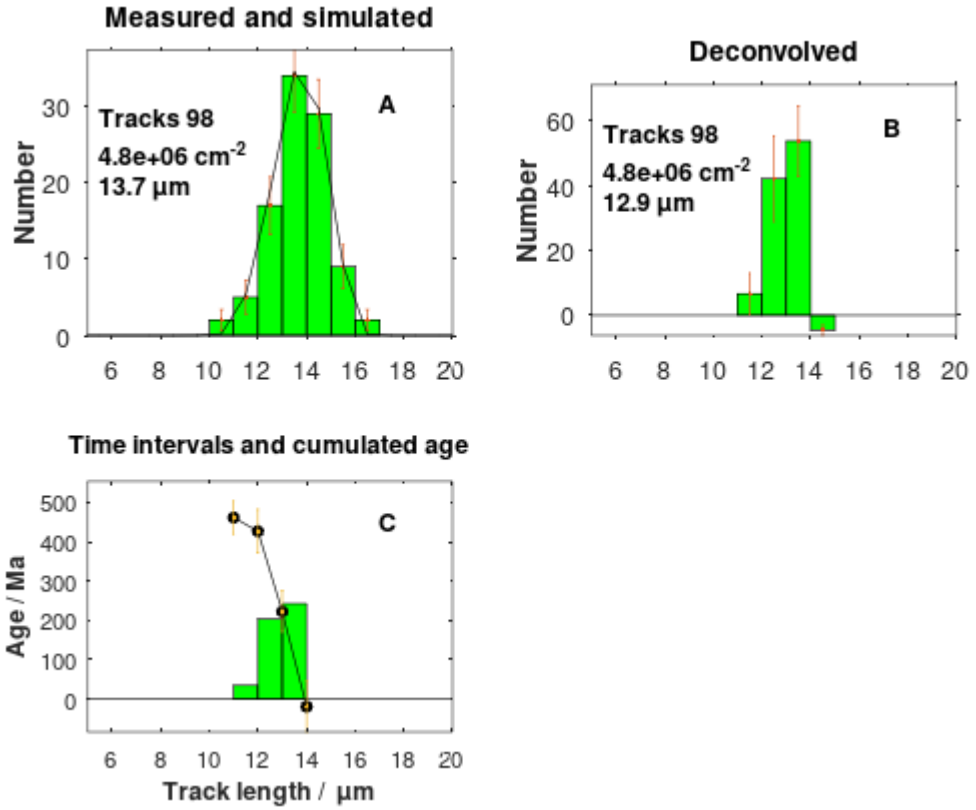

Fig. S1. C-XI-119.

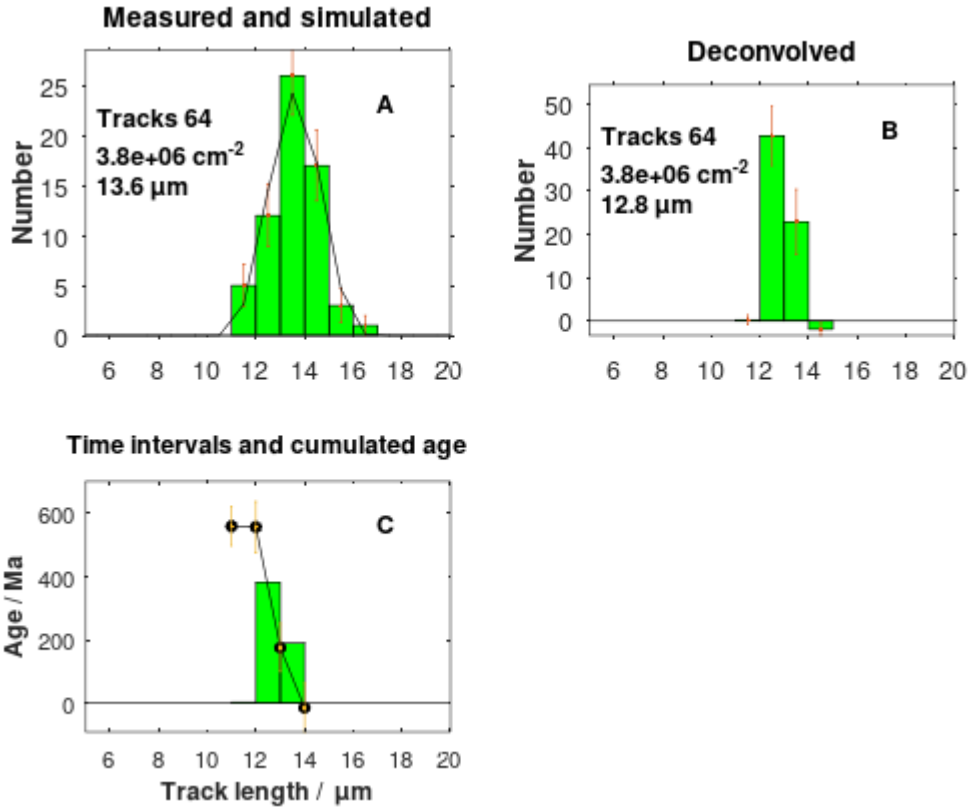

Fig. S2. C-XI-120.

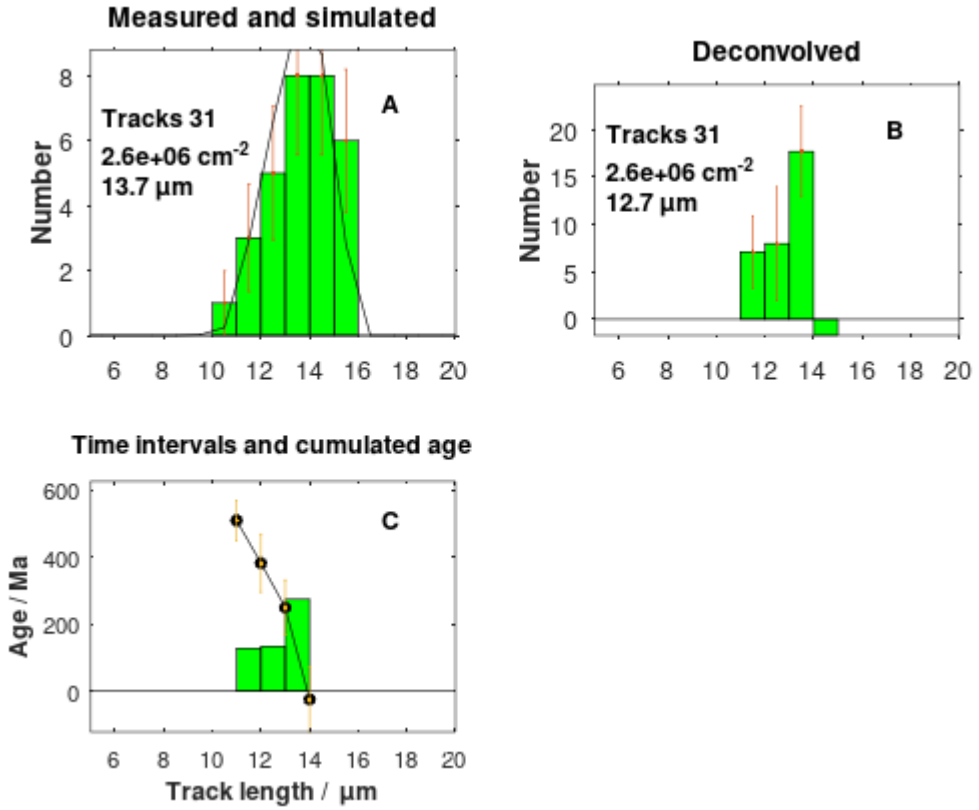

Fig. S3. C-XI-121.

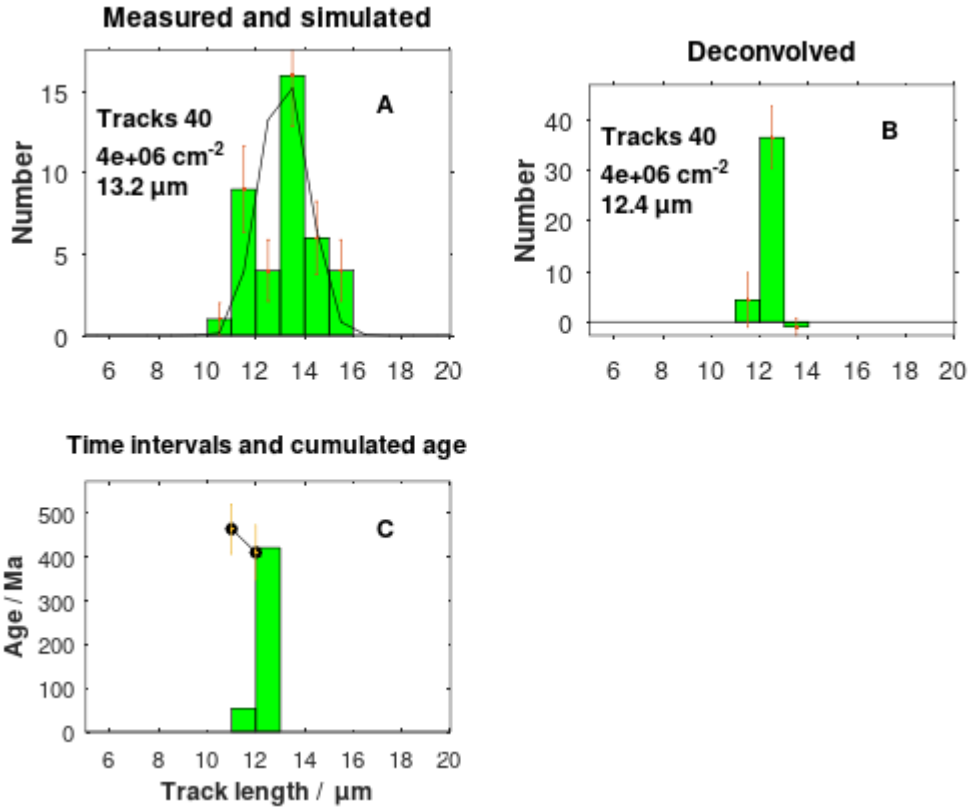

Fig. S4. C-XI-123.

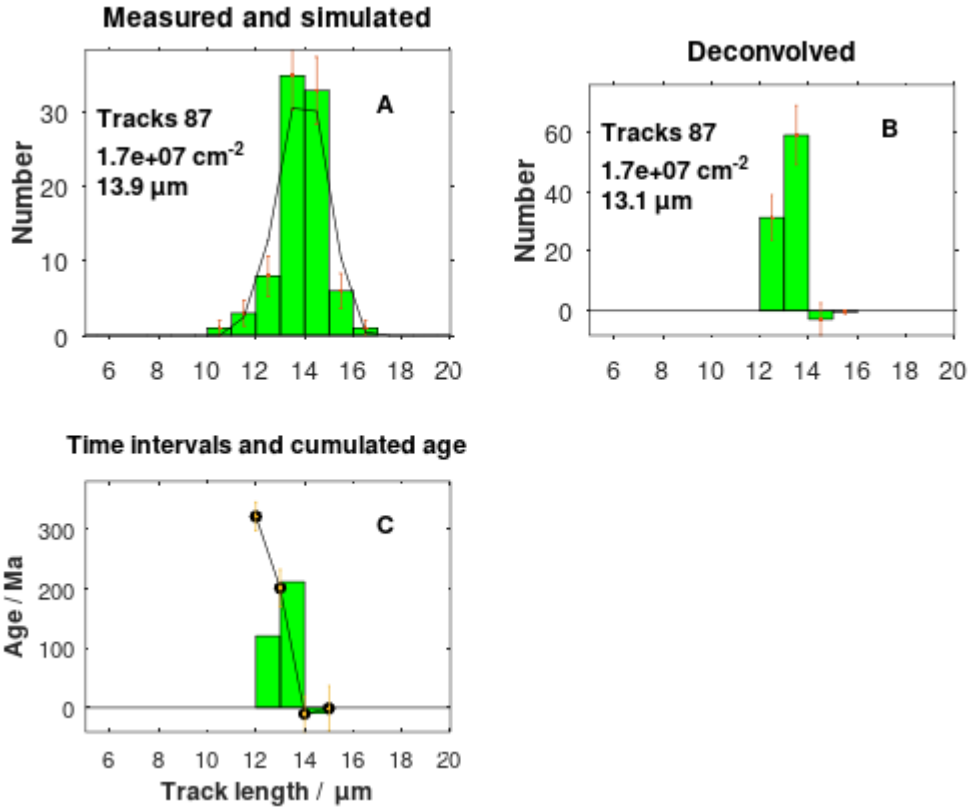

Fig. S5. C-XI-124.

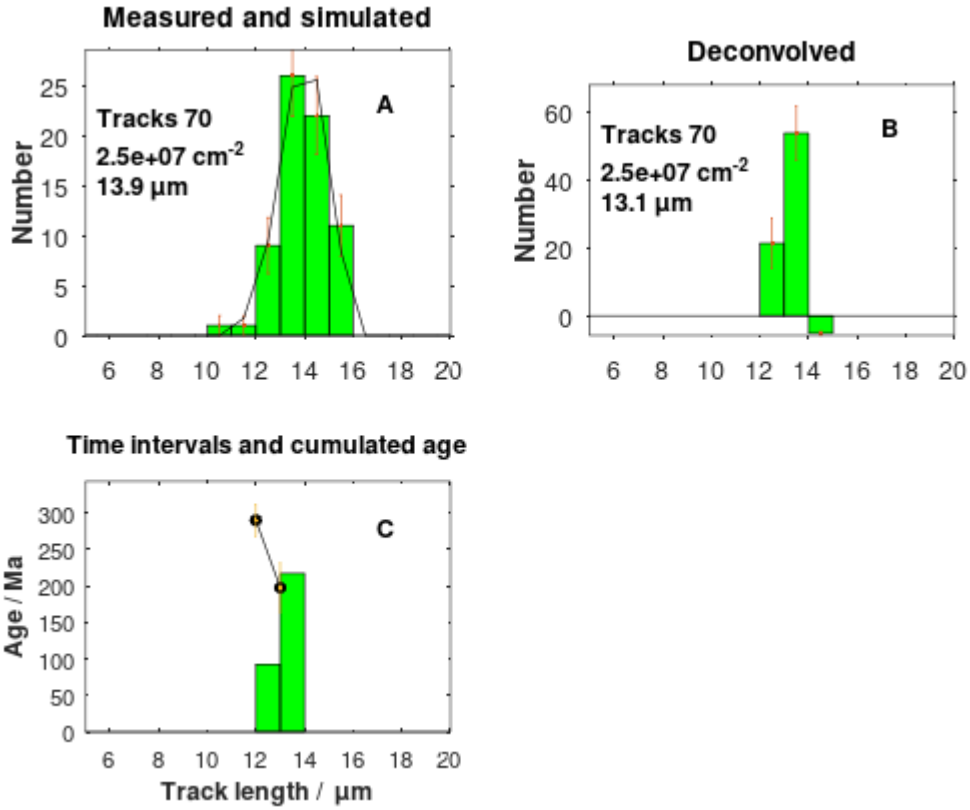

Fig. S6. C-XI-125.

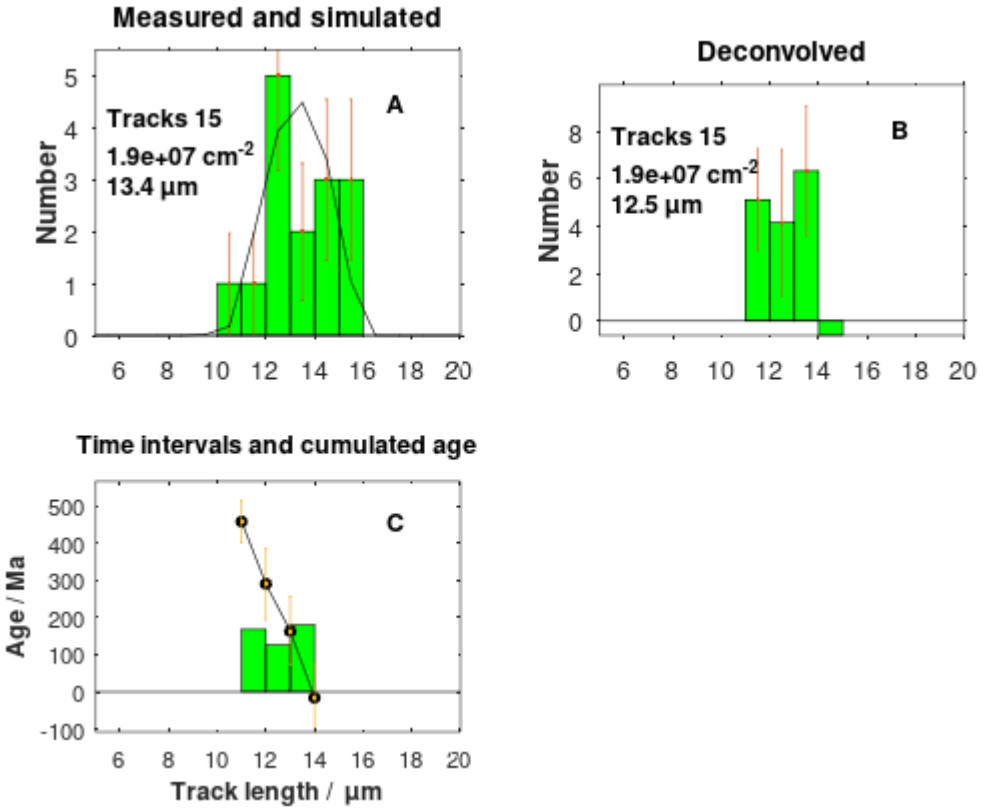

Fig. S7. C-XI-126.

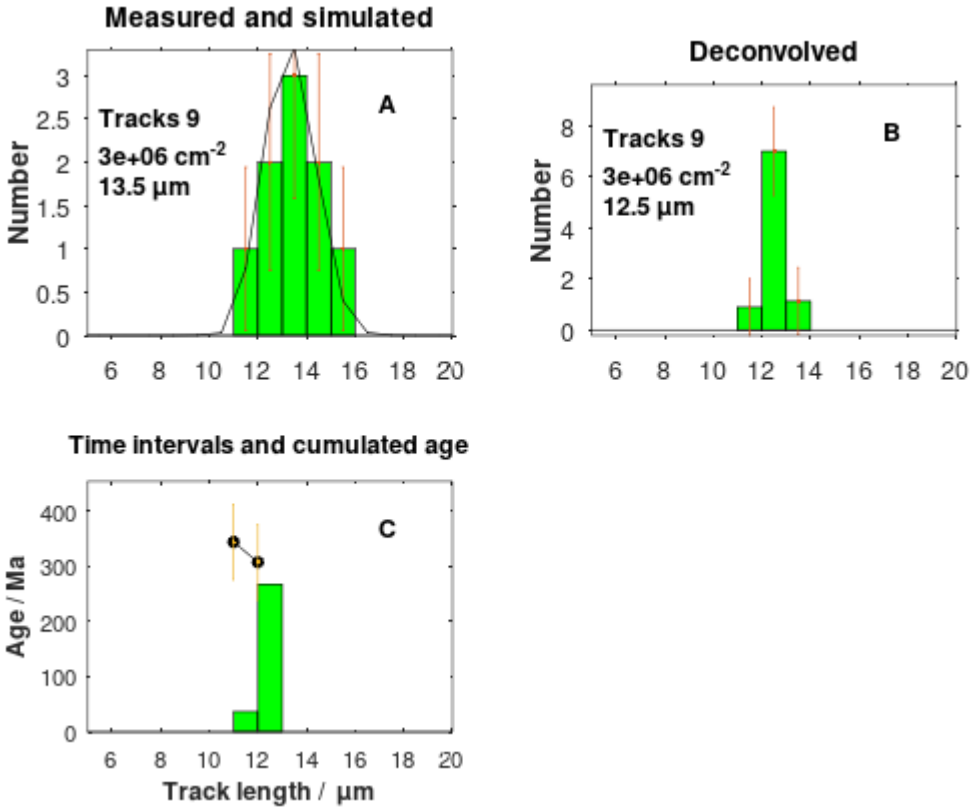

Fig. S8. CXII-06.

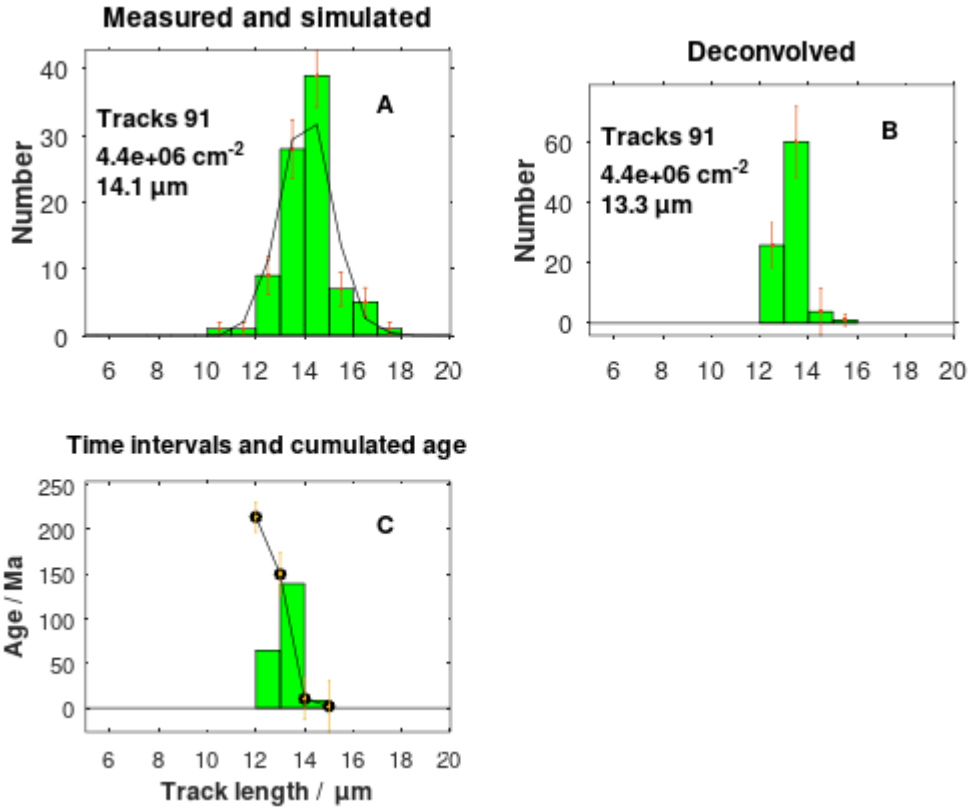

Fig. S9. CXII-13.

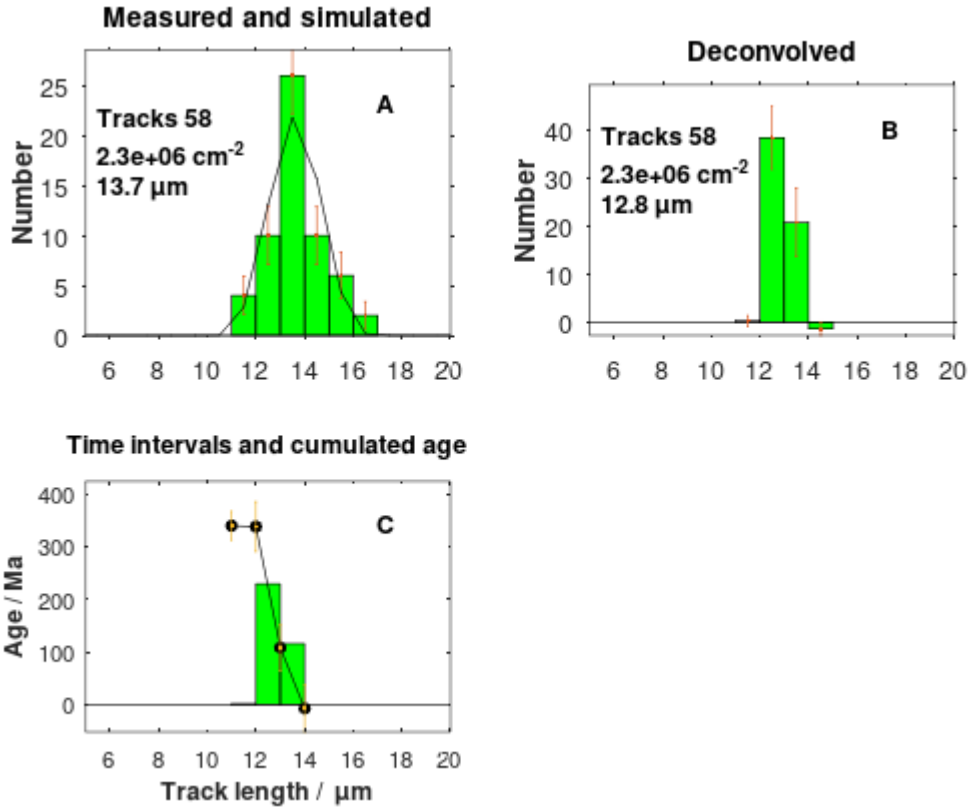

Fig. S10. CXII-14.

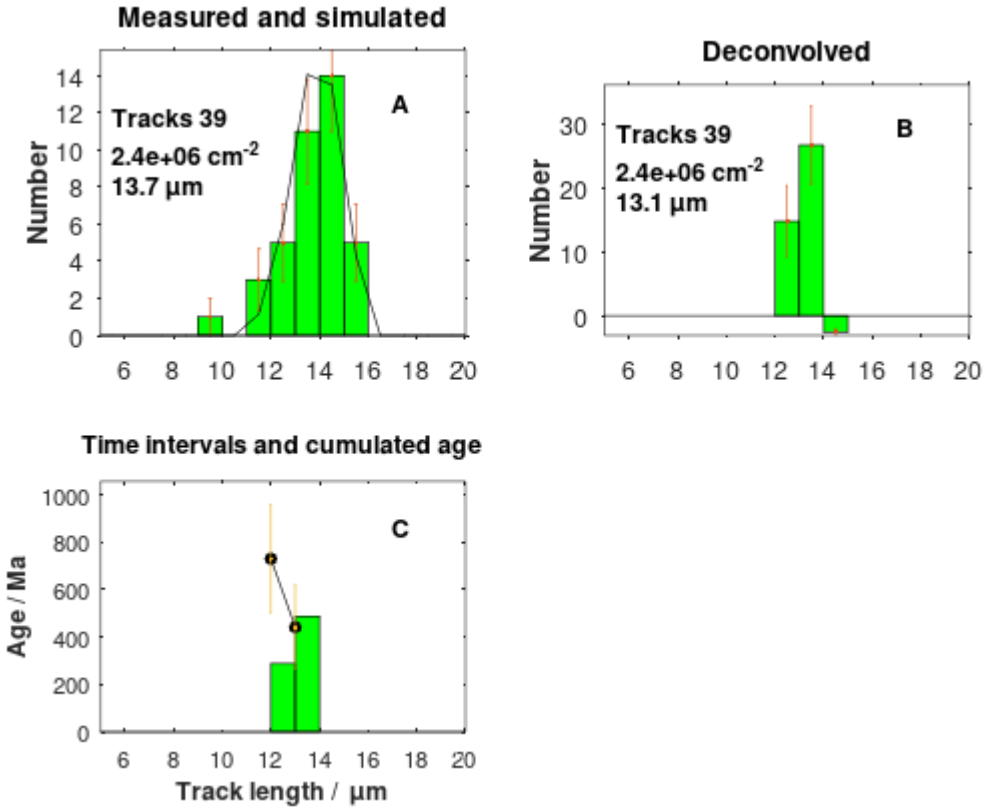

Fig. S11. CXII-20.

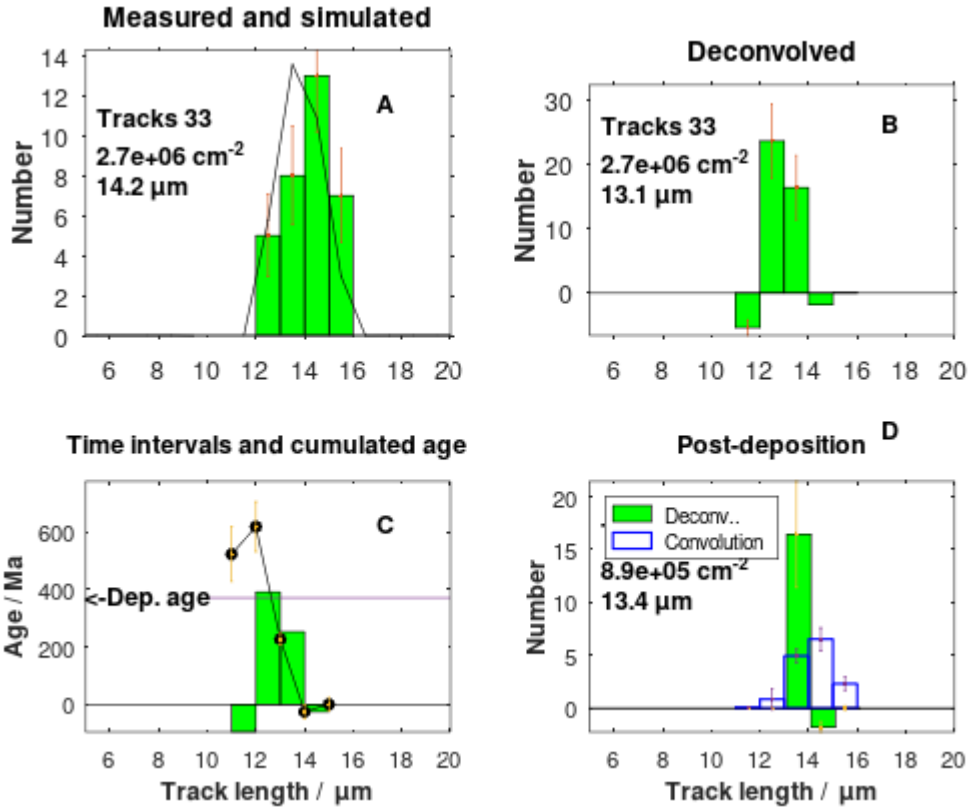

Fig. S12. CXII-22.

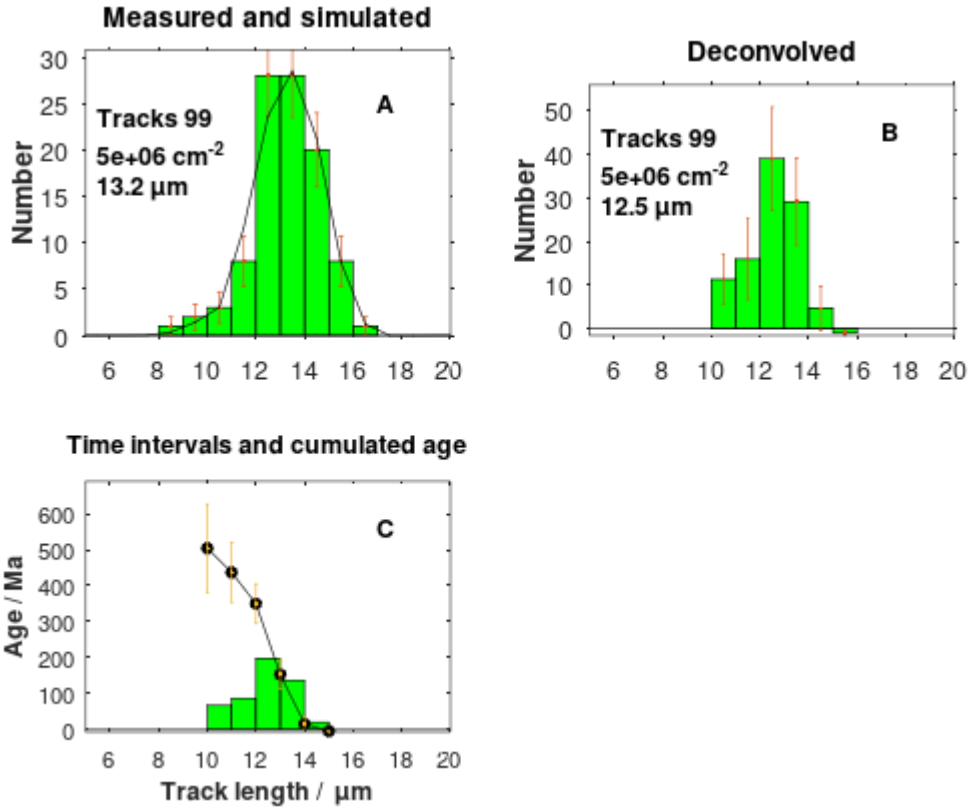

Fig. S13. CXII-25.

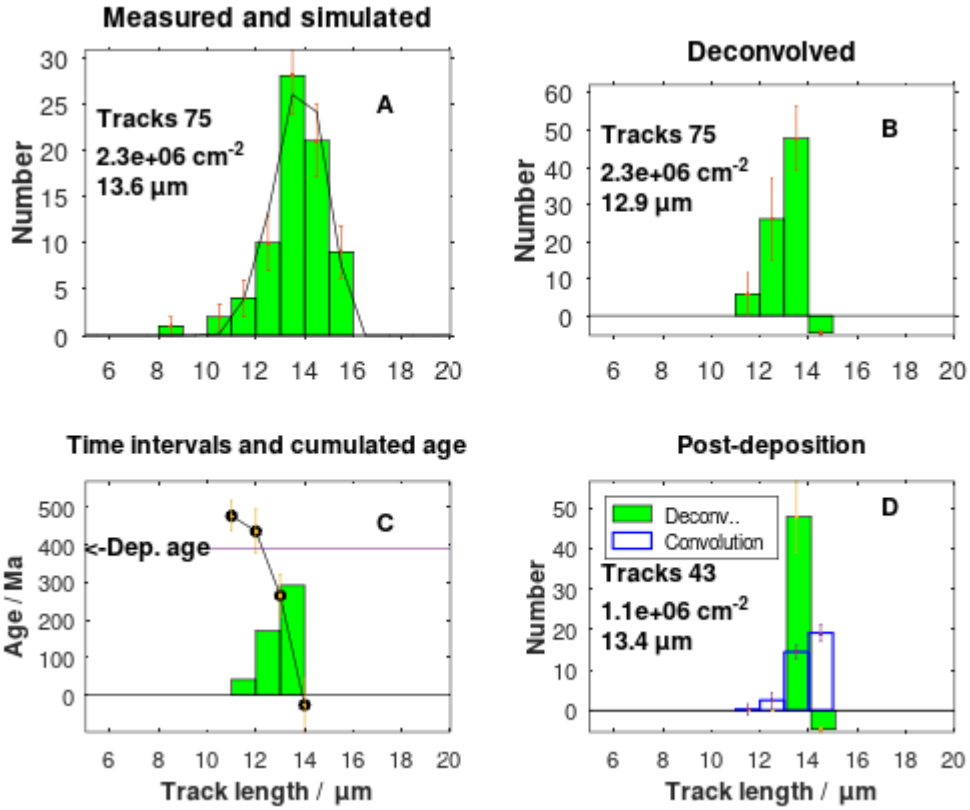

Fig. S14. CXII-27.

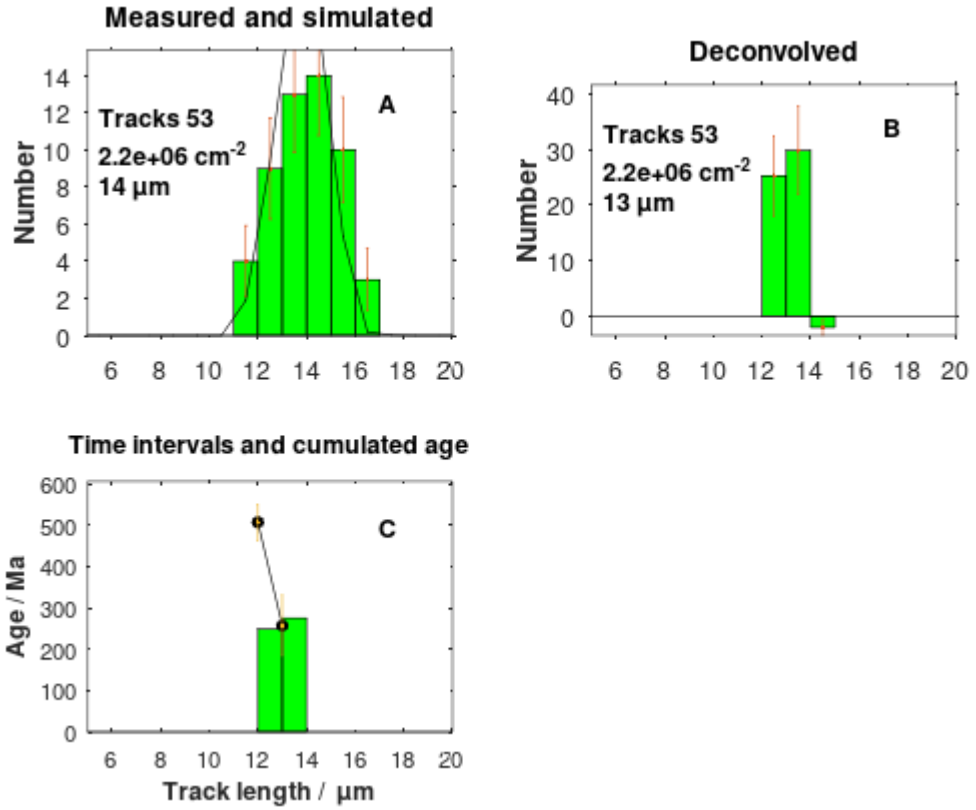

Fig. S15. CXII-30.

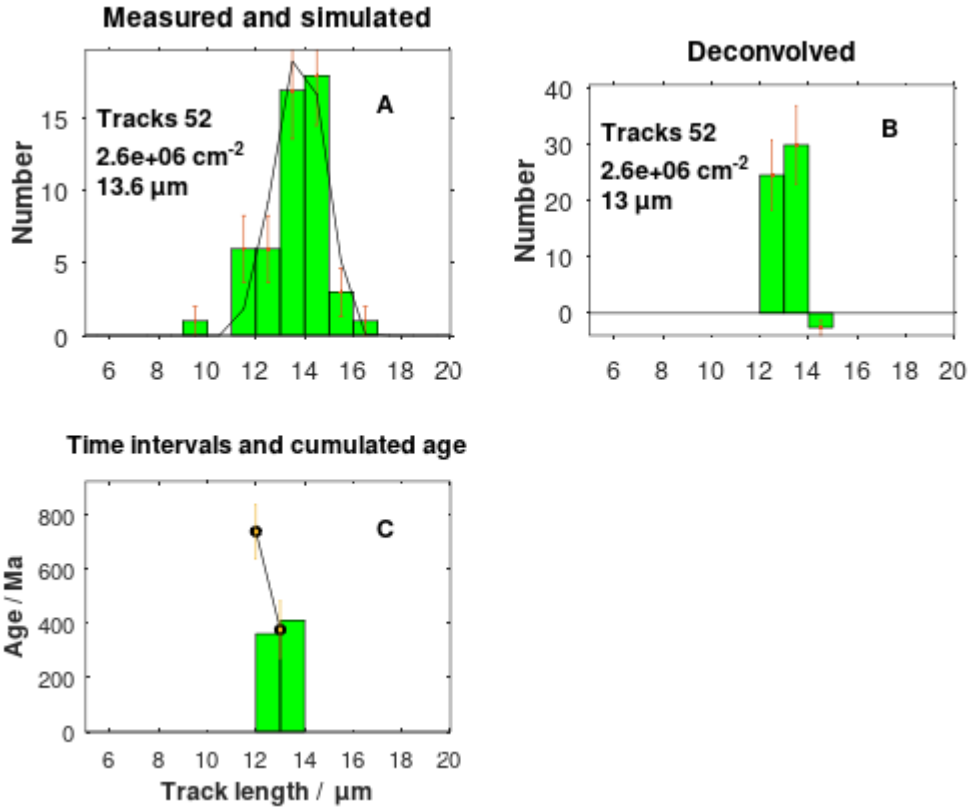

Fig. S16. CXII-36.

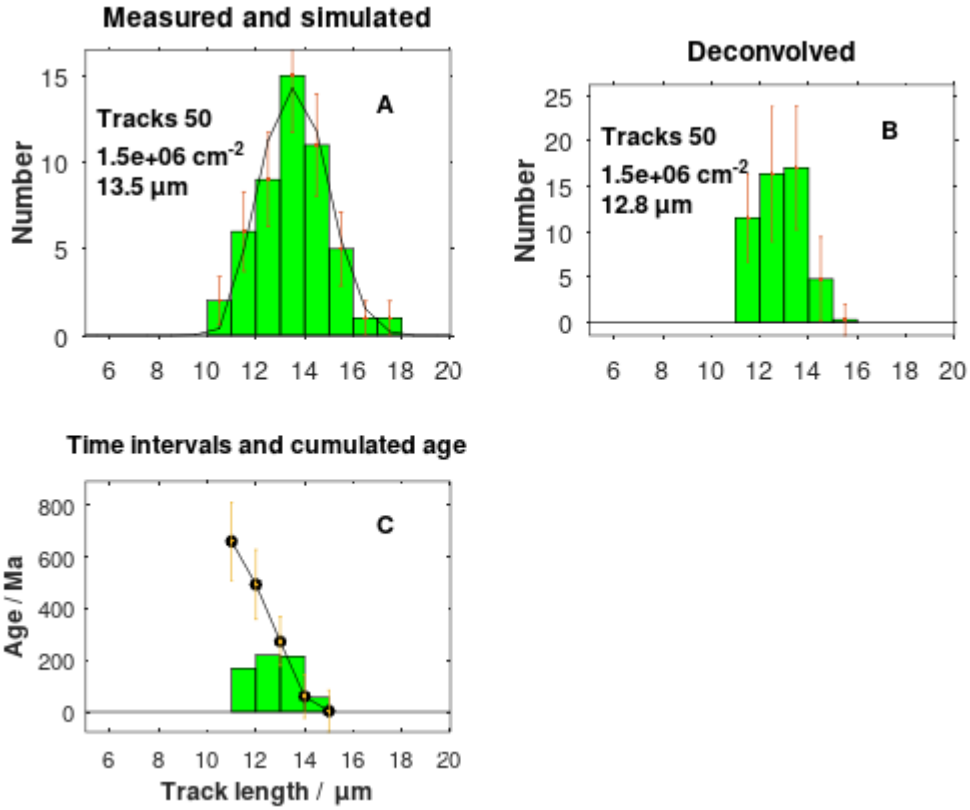

Fig. S17. CXII-37.

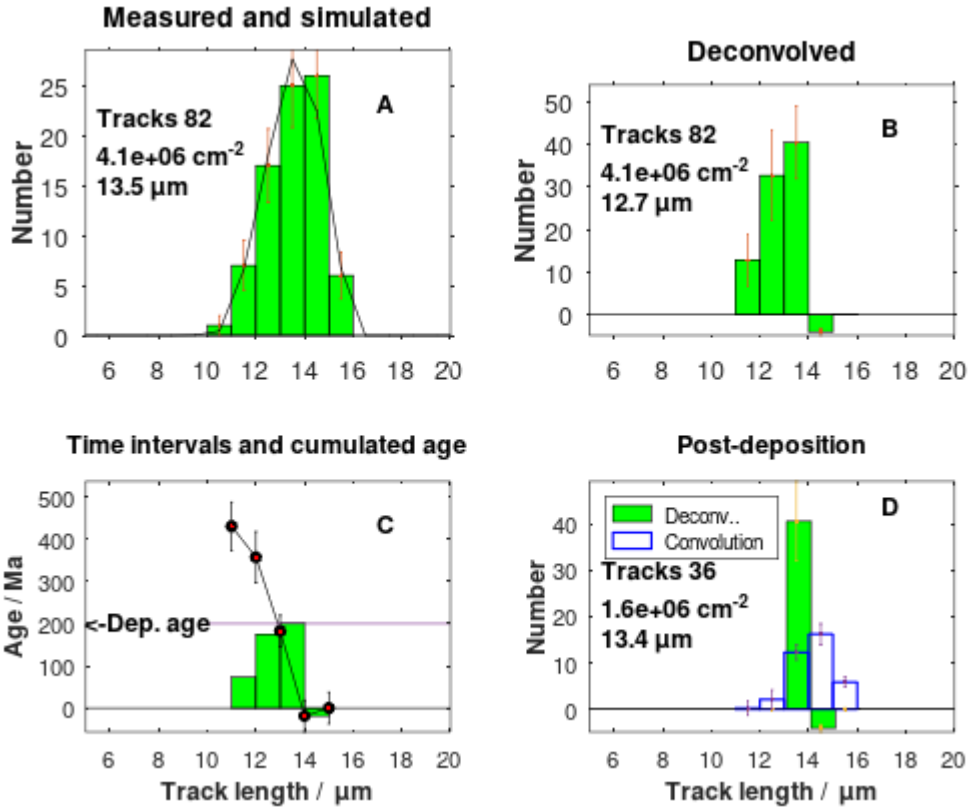

Fig. S18. CXII-42

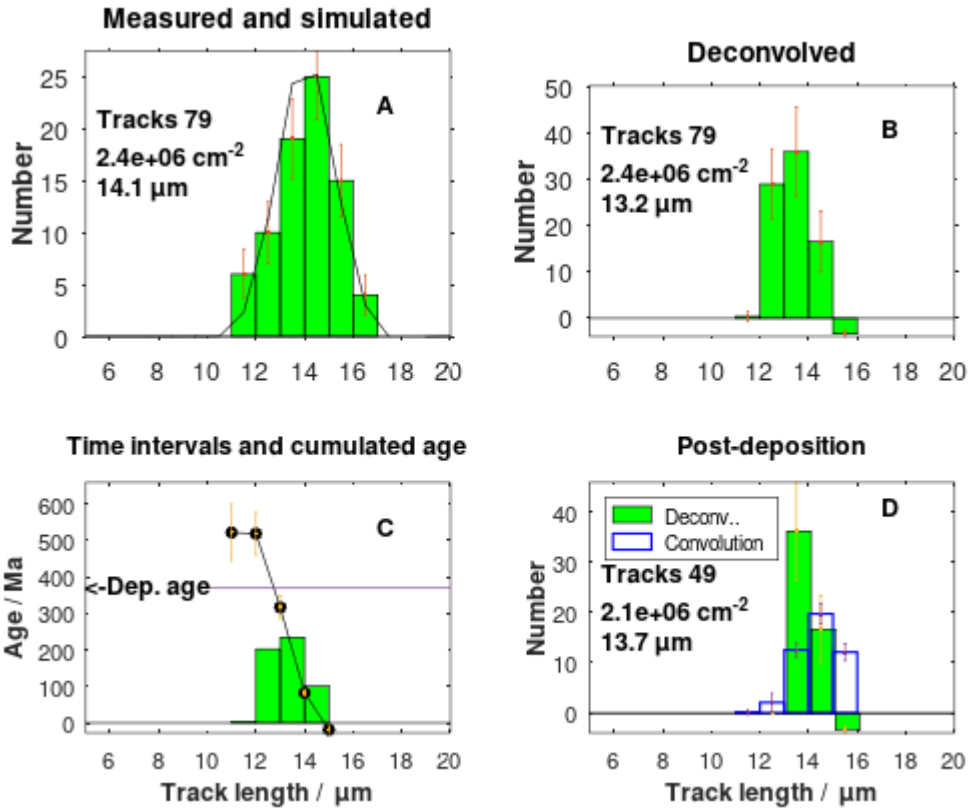

Fig. S19. CXII-46.

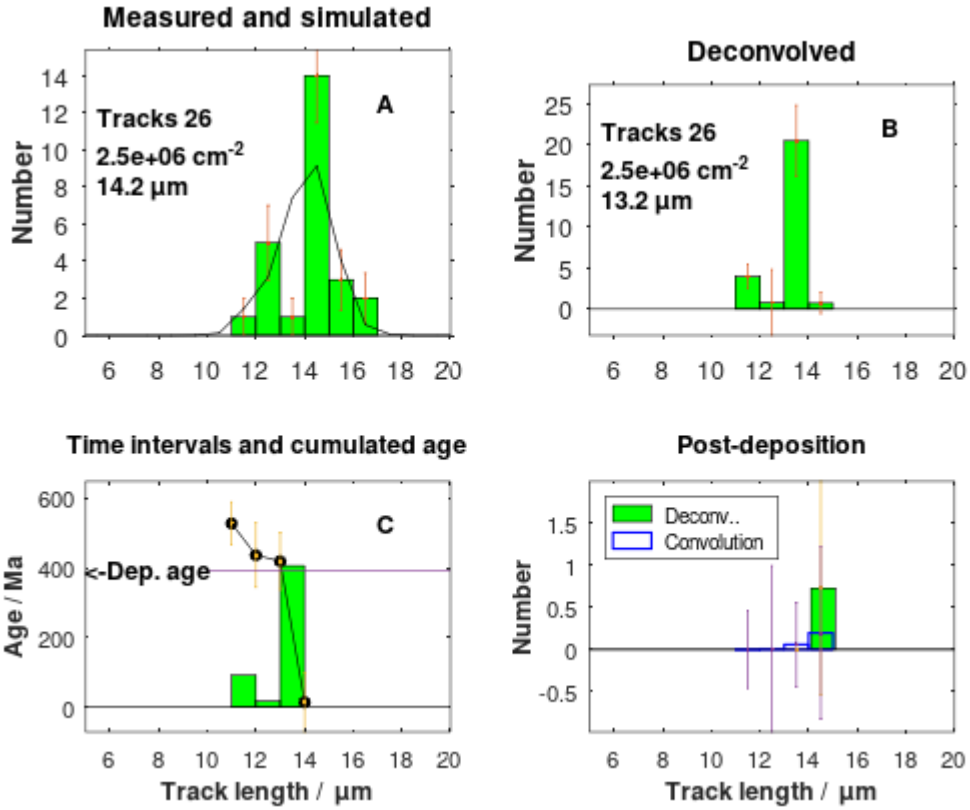

Fig. S20. CXII-48.

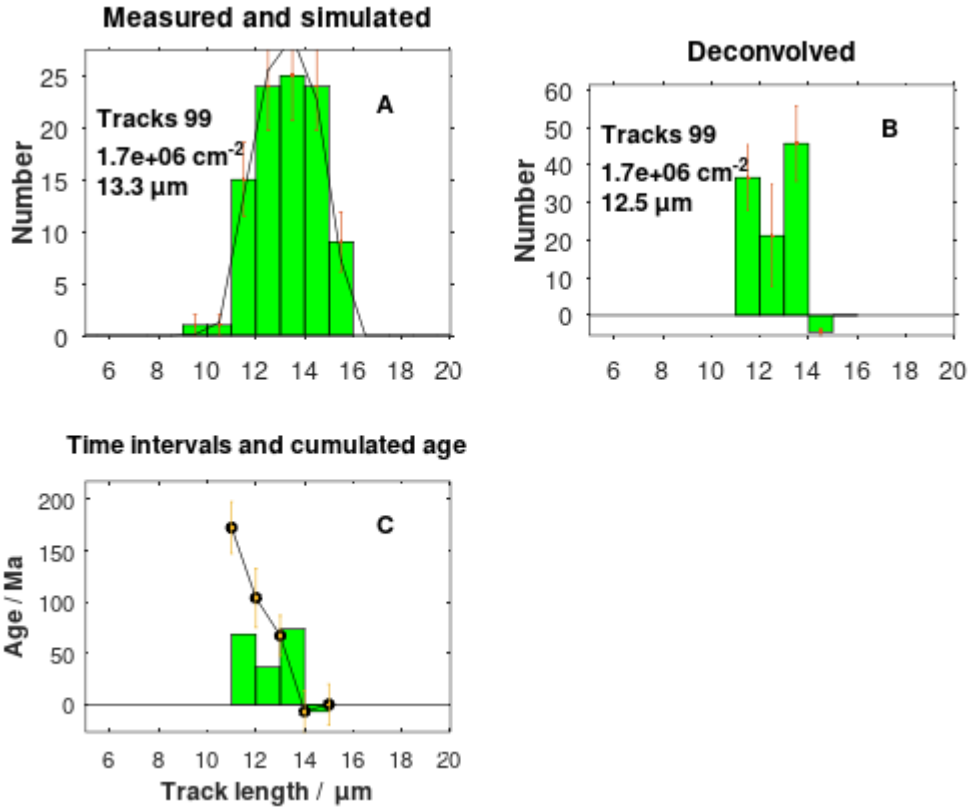

Fig. S21. GRÖ-21.

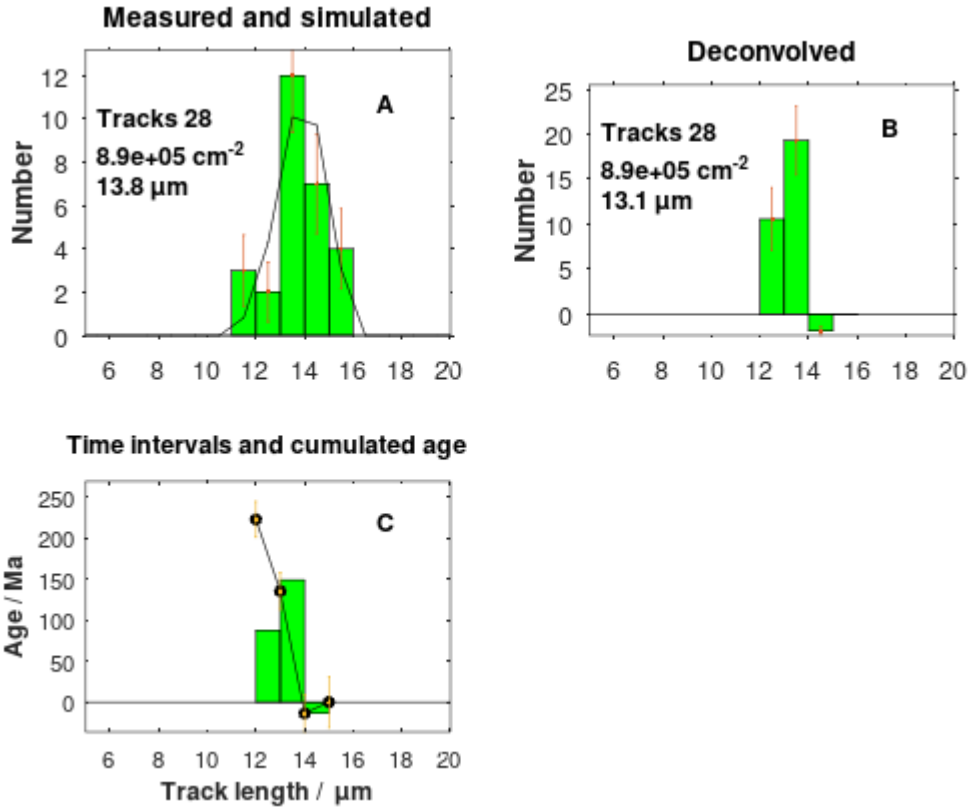

Fig. S22. GRÖ-23.

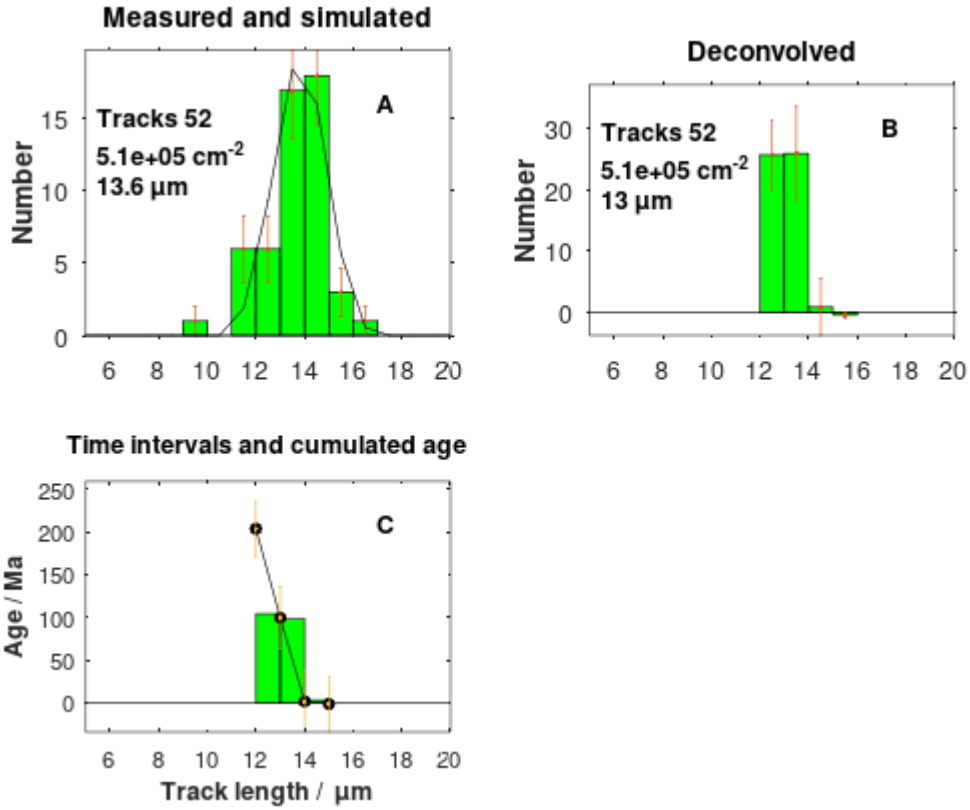

Fig. S23. GRÖ-36.

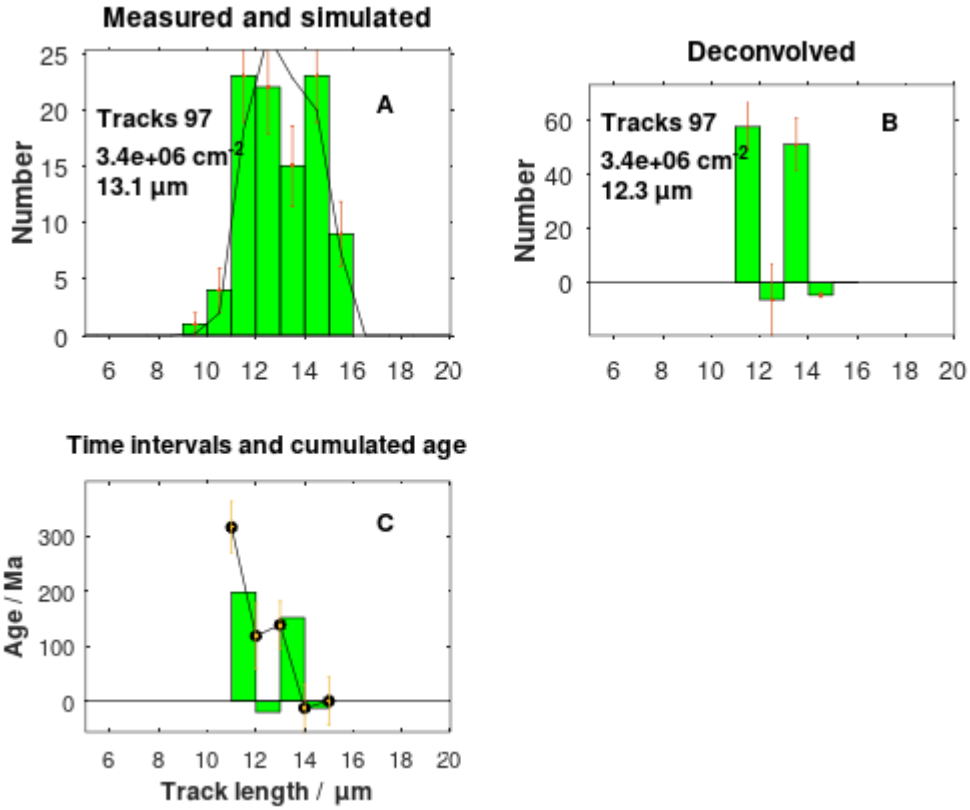

Fig. S24. GRÖ-64.

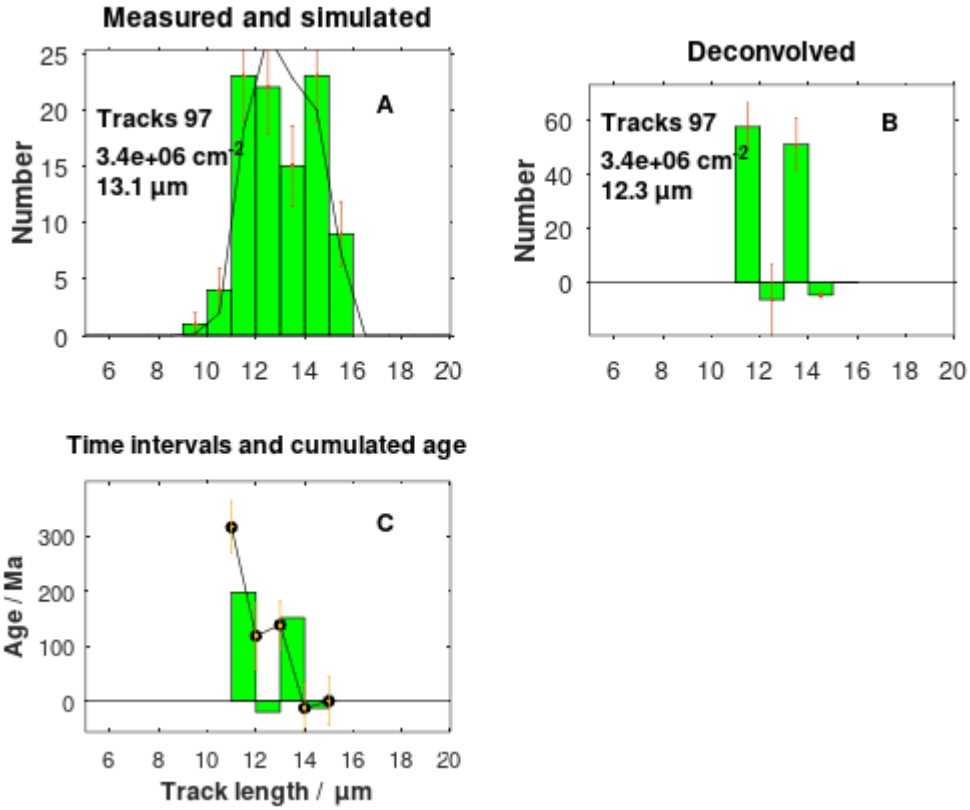

Fig. S25. KP702.

References

Spiegel, C., Sohi, M. S., Reiter, W., Meier, K., Ventura, B., Lisker, F., et al. Phanerozoic tectonic and sedimentation history of the Arctic: Constraints from deep-time low-temperature thermochronology data of Ellesmere Island and Northwest Greenland. Tectonics, 42, e2022TC007579. https://doi.org/10.1029/2022TC007579, 2023a.

Spiegel, C., Sohi, M. S., Reiter, W., Meier, K., Ventura, B., Lisker, F., et al Supporting Information for Phanerozoic tectonic and sedimentation history of the Arctic: constraints from deep-time low-temperature thermochronology data of Ellesmere Island and Northwest Greenland https://doi.org/10.5281/zenodo.8120628, 2023b.