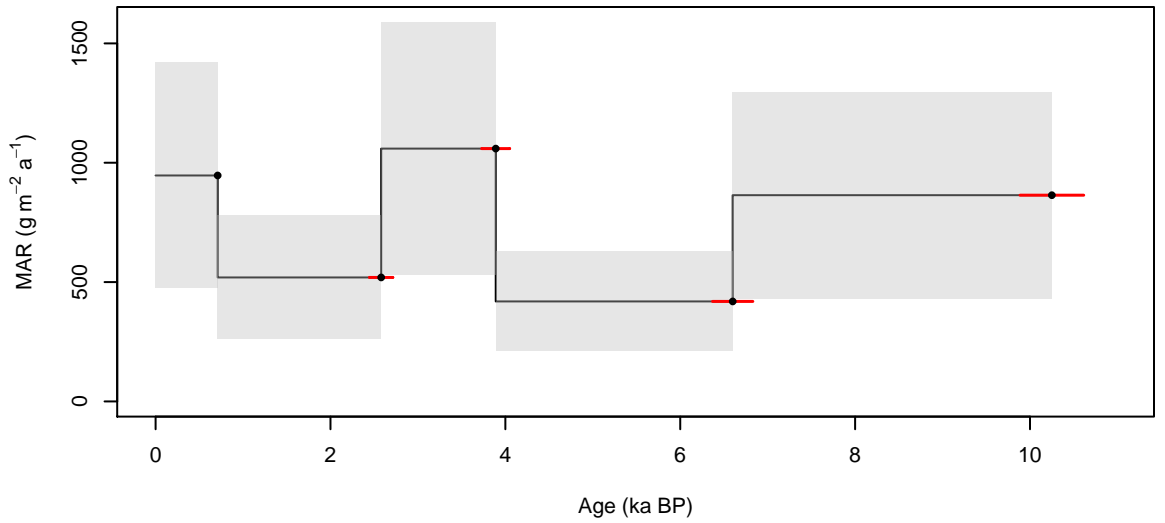
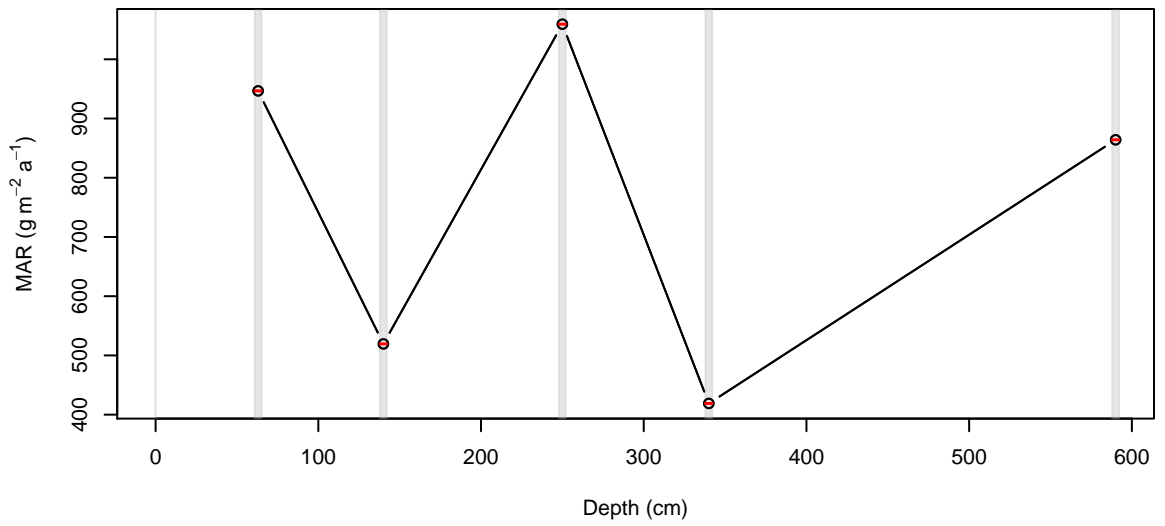


OWR



OWR

Reference: Miao et al., 2007

Depth: OSL ages from depth interval few cm thick, provided by X. Miao

Age: Ages are bottom ages for the sections. OSL.

Age error: From OSL

SBMAR: LSR*DBD, with LSR for each soil horizon

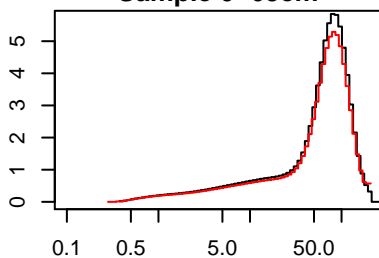
SBMAR err: From LSR and DBD

DBD: Assume it is 1.45 g/cm^3 (Bettis et al., 2003)

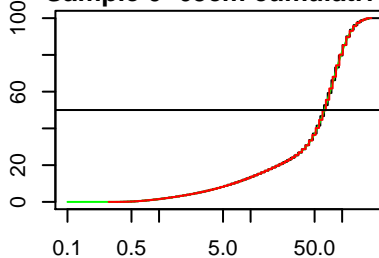
DBD err: Assume it is 15% (Kohfeld and Harrison, 2003)

EC: Assume it is 1, organic content negligible

Sample 0–63cm

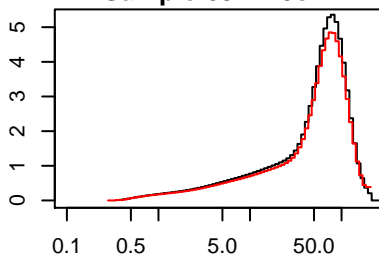


Sample 0–63cm cumulative

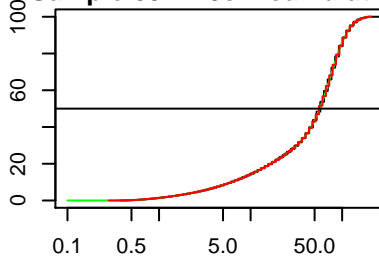


Sample statistics
 Mass conserved = 0.978
 Median(obs/new) = 66.52 / 63.69
 1%(obs/new) = 0.83 / 0.8
 5%(obs/new) = 2.79 / 2.7
 25%(obs/new) = 31.54 / 32.19
 75%(obs/new) = 88 / 89.58
 95%(obs/new) = 140.25 / 137.21
 99%(obs/new) = 169 / 177.21

Sample 63–140cm

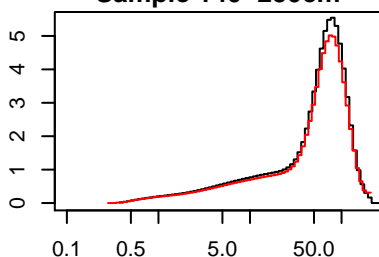


Sample 63–140cm cumulative

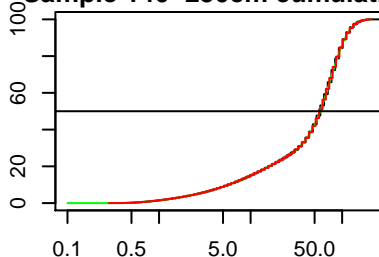


Sample statistics
 Mass conserved = 0.989
 Median(obs/new) = 55.2 / 58.48
 1%(obs/new) = 0.83 / 0.87
 5%(obs/new) = 2.79 / 2.7
 25%(obs/new) = 23.84 / 22.88
 75%(obs/new) = 80.17 / 82.26
 95%(obs/new) = 127.75 / 126
 99%(obs/new) = 169 / 162.73

Sample 140–250cm

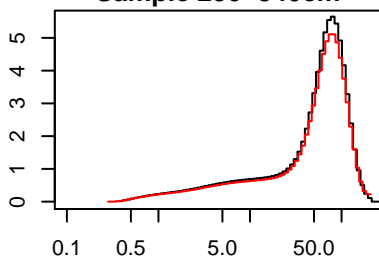


Sample 140–250cm cumulative

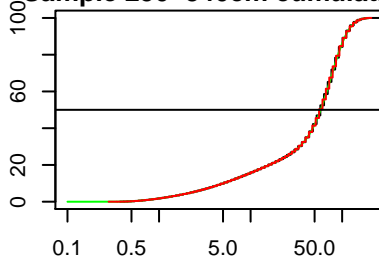


Sample statistics
 Mass conserved = 0.991
 Median(obs/new) = 55.2 / 58.48
 1%(obs/new) = 0.83 / 0.8
 5%(obs/new) = 2.54 / 2.7
 25%(obs/new) = 23.84 / 24.92
 75%(obs/new) = 80.17 / 82.26
 95%(obs/new) = 127.75 / 126
 99%(obs/new) = 154 / 162.73

Sample 250–340cm

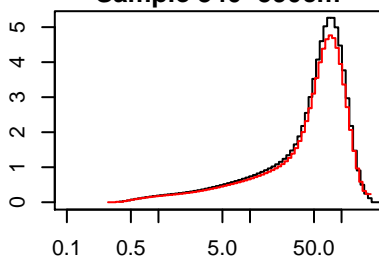


Sample 250–340cm cumulative

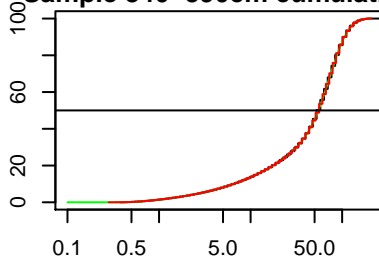


Sample statistics
 Mass conserved = 0.993
 Median(obs/new) = 60.59 / 58.48
 1%(obs/new) = 0.76 / 0.73
 5%(obs/new) = 2.31 / 2.27
 25%(obs/new) = 26.16 / 24.92
 75%(obs/new) = 80.17 / 82.26
 95%(obs/new) = 127.75 / 126
 99%(obs/new) = 154 / 162.73

Sample 340–590cm

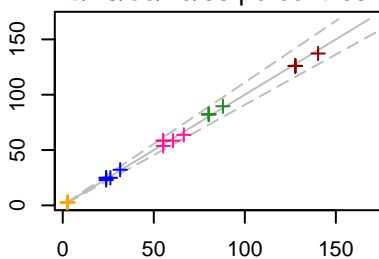


Sample 340–590cm cumulative

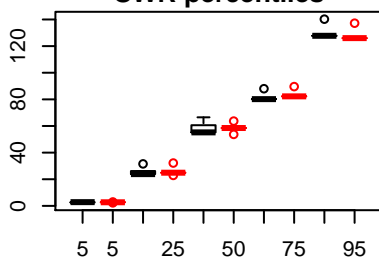


Sample statistics
 Mass conserved = 0.996
 Median(obs/new) = 55.2 / 53.7
 1%(obs/new) = 0.83 / 0.8
 5%(obs/new) = 2.79 / 2.94
 25%(obs/new) = 23.84 / 24.92
 75%(obs/new) = 80.17 / 82.26
 95%(obs/new) = 127.75 / 126
 99%(obs/new) = 154 / 162.73

5/25/50/75/95 percentiles



OWR percentiles



Site statistics
 Percentiles Pearson's corr. = 1
 Mean normalized bias = 0