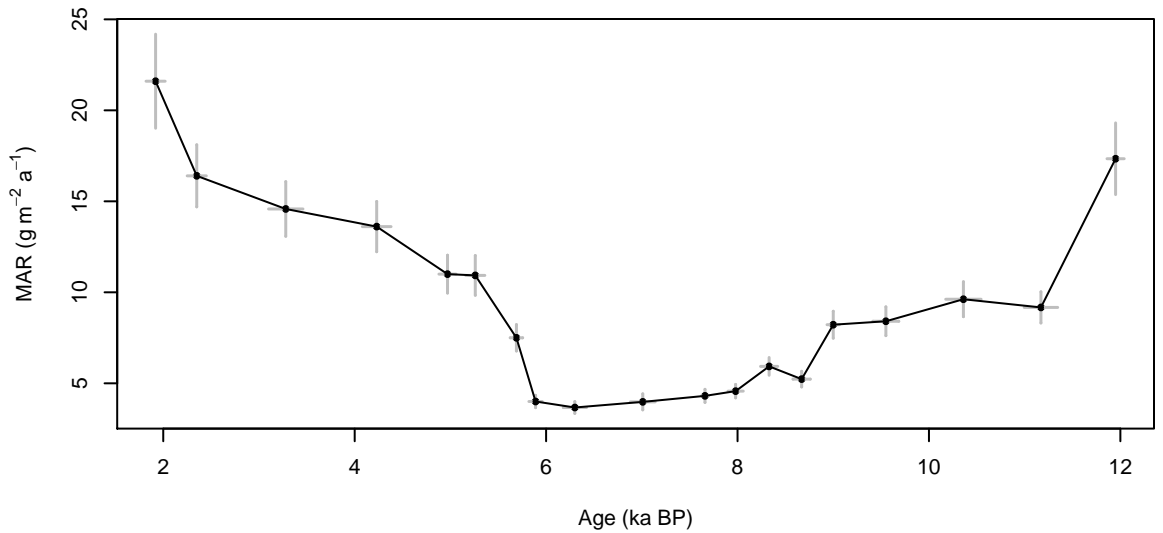
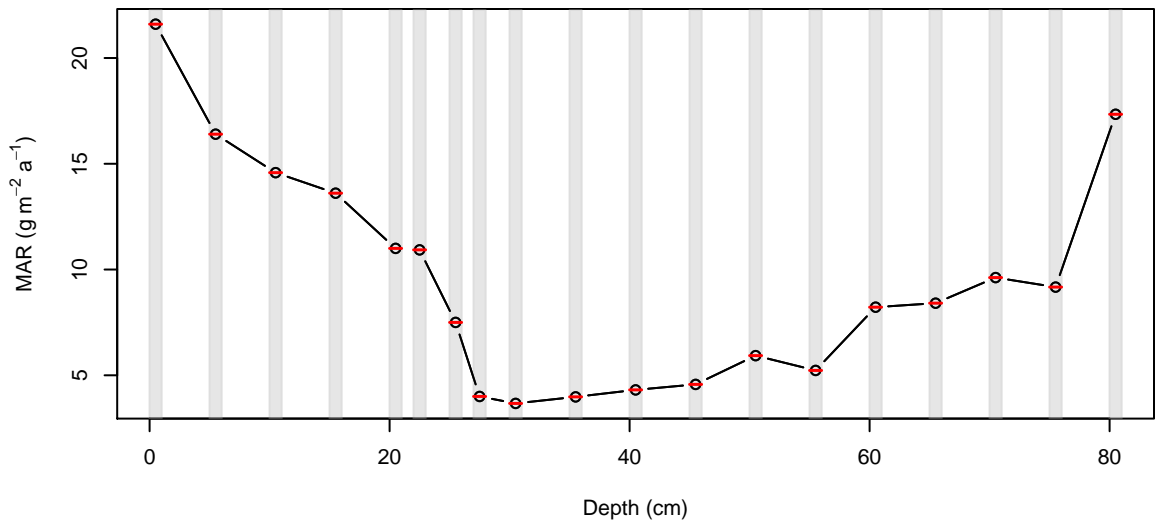


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Reference: McGee et al. 2013

Depth: depths given in paper. Assume they are center, and assume thickness is 1 cm

Age: 14C (planktonic foraminifera), calibrated with Marine09 curve (OxCal) (Bronk Ramsey, 1995)

Age error: from 14C error

SBMAR: 230Th

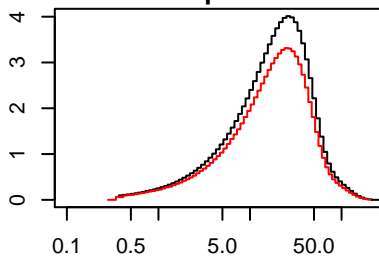
SBMAR err: from xs-Th error

EC: end-member aeolian component of the terrigenous fraction

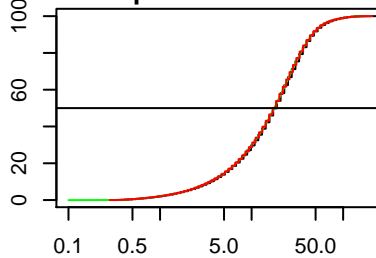
EC err: assume 15%

Size: Beckman-Coulter LS200 laser diffraction

Sample 2.5

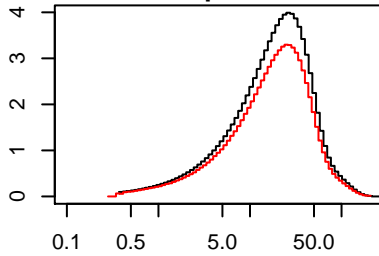


Sample 2.5 cumulative

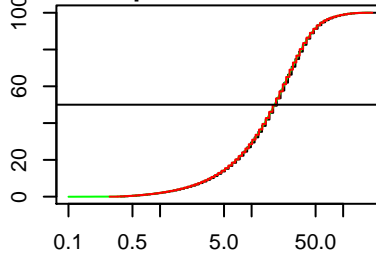


```
Sample statistics
Mass conserved = 1
Median(obs/new) = 17.6 / 17.71
1%(obs/new) = 0.68 / 0.67
5%(obs/new) = 1.88 / 1.91
25%(obs/new) = 8.35 / 8.21
75%(obs/new) = 30.8 / 29.56
95%(obs/new) = 59.17 / 58.48
99%(obs/new) = 94.34 / 97.56
```

Sample 7.5

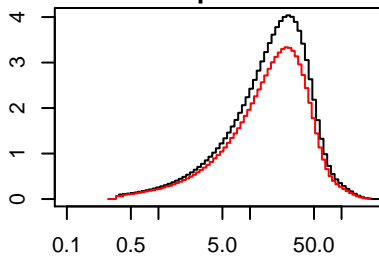


Sample 7.5 cumulative

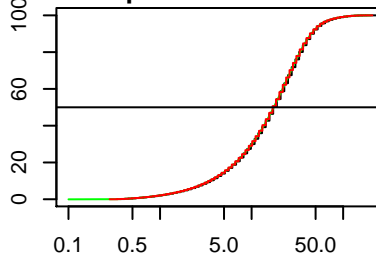


```
Sample statistics
Mass conserved = 1
Median(obs/new) = 17.6 / 17.71
1%(obs/new) = 0.68 / 0.67
5%(obs/new) = 1.88 / 1.91
25%(obs/new) = 8.35 / 8.21
75%(obs/new) = 30.8 / 32.19
95%(obs/new) = 59.17 / 58.48
99%(obs/new) = 103.56 / 97.56
```

Sample 12.5

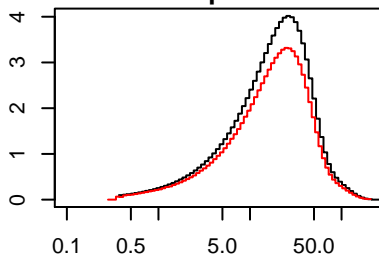


Sample 12.5 cumulative

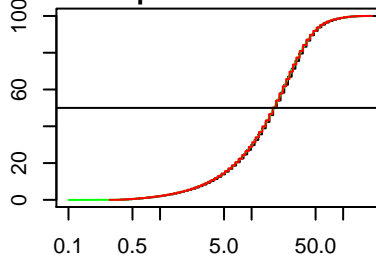


```
Sample statistics
Mass conserved = 1
Median(obs/new) = 17.6 / 17.71
1%(obs/new) = 0.68 / 0.67
5%(obs/new) = 1.88 / 1.91
25%(obs/new) = 8.35 / 8.21
75%(obs/new) = 30.8 / 29.56
95%(obs/new) = 59.17 / 58.48
99%(obs/new) = 94.34 / 97.56
```

Sample 15

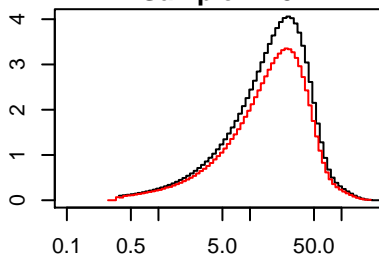


Sample 15 cumulative

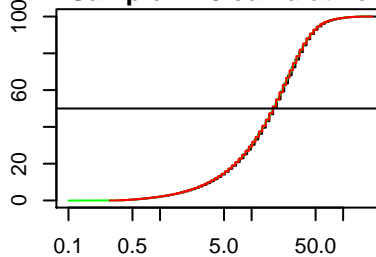


```
Sample statistics
Mass conserved = 1
Median(obs/new) = 17.6 / 17.71
1%(obs/new) = 0.68 / 0.67
5%(obs/new) = 1.88 / 1.91
25%(obs/new) = 8.35 / 8.21
75%(obs/new) = 30.8 / 29.56
95%(obs/new) = 59.17 / 58.48
99%(obs/new) = 94.34 / 97.56
```

Sample 17.5

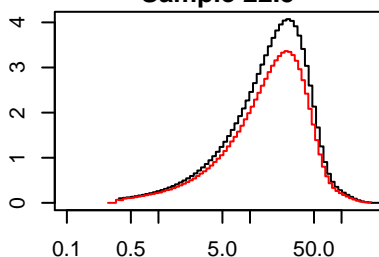


Sample 17.5 cumulative

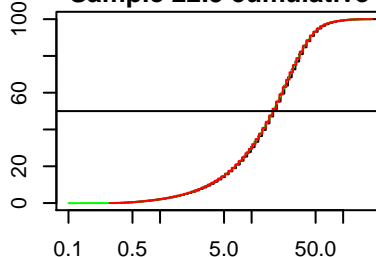


```
Sample statistics
Mass conserved = 1
Median(obs/new) = 17.6 / 17.71
1%(obs/new) = 0.68 / 0.67
5%(obs/new) = 1.88 / 1.91
25%(obs/new) = 8.35 / 8.21
75%(obs/new) = 30.8 / 29.56
95%(obs/new) = 53.91 / 53.7
99%(obs/new) = 94.34 / 89.58
```

Sample 22.5

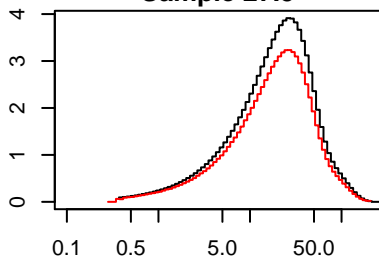


Sample 22.5 cumulative

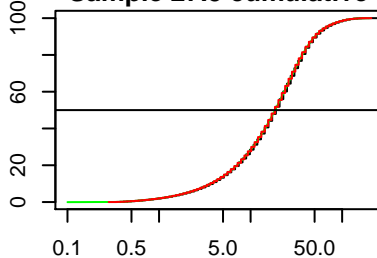


```
Sample statistics
Mass conserved = 1
Median(obs/new) = 17.6 / 17.71
1%(obs/new) = 0.68 / 0.67
5%(obs/new) = 1.88 / 1.91
25%(obs/new) = 8.35 / 8.21
75%(obs/new) = 30.8 / 29.56
95%(obs/new) = 53.91 / 53.7
99%(obs/new) = 85.94 / 89.58
```

Sample 27.5

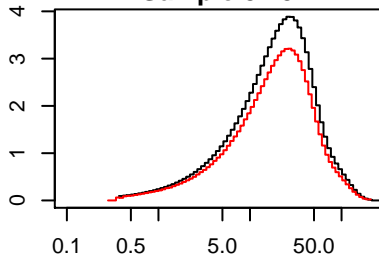


Sample 27.5 cumulative

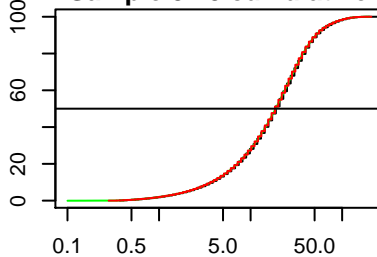


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 19.32 / 19.29
 1%(obs/new) = 0.68 / 0.67
 5%(obs/new) = 2.06 / 2.08
 25%(obs/new) = 9.16 / 8.94
 75%(obs/new) = 33.82 / 32.19
 95%(obs/new) = 64.96 / 69.36
 99%(obs/new) = 113.7 / 106.24

Sample 32.5

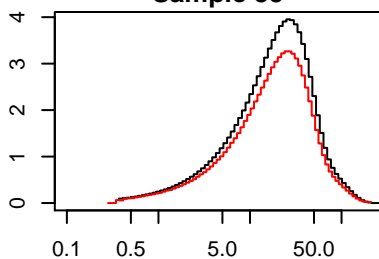


Sample 32.5 cumulative

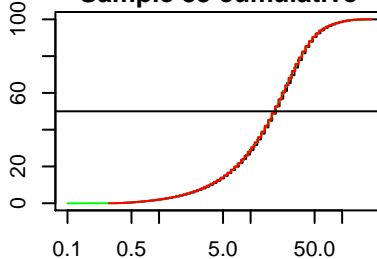


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 19.32 / 19.29
 1%(obs/new) = 0.68 / 0.67
 5%(obs/new) = 2.06 / 2.08
 25%(obs/new) = 9.16 / 8.94
 75%(obs/new) = 33.82 / 32.19
 95%(obs/new) = 71.31 / 69.36
 99%(obs/new) = 113.7 / 115.7

Sample 35

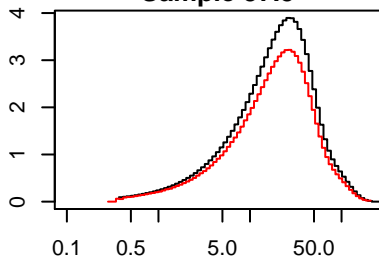


Sample 35 cumulative

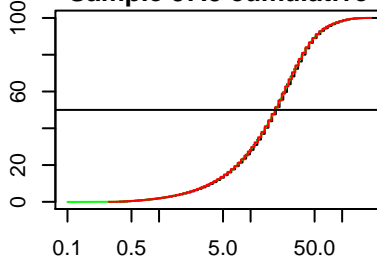


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 17.6 / 17.71
 1%(obs/new) = 0.68 / 0.67
 5%(obs/new) = 2.06 / 1.91
 25%(obs/new) = 8.35 / 8.94
 75%(obs/new) = 30.8 / 32.19
 95%(obs/new) = 64.96 / 63.69
 99%(obs/new) = 103.56 / 106.24

Sample 37.5

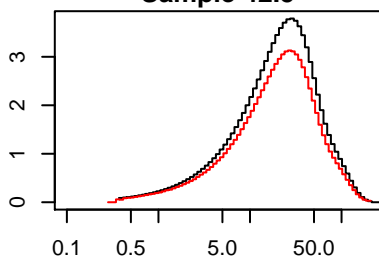


Sample 37.5 cumulative

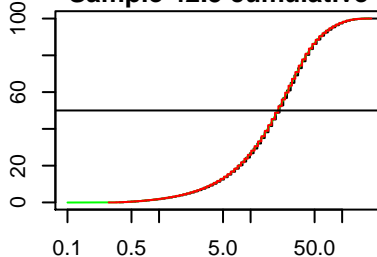


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 19.32 / 19.29
 1%(obs/new) = 0.68 / 0.67
 5%(obs/new) = 2.06 / 2.08
 25%(obs/new) = 9.16 / 8.94
 75%(obs/new) = 33.82 / 32.19
 95%(obs/new) = 64.96 / 69.36
 99%(obs/new) = 113.7 / 115.7

Sample 42.5

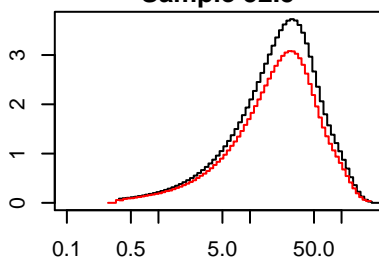


Sample 42.5 cumulative

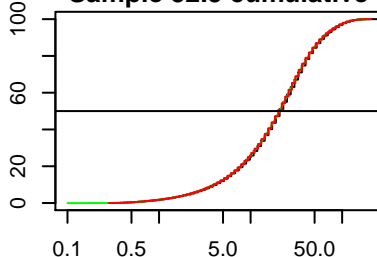


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 19.32 / 19.29
 1%(obs/new) = 0.68 / 0.73
 5%(obs/new) = 2.06 / 2.08
 25%(obs/new) = 9.16 / 9.74
 75%(obs/new) = 37.12 / 35.05
 95%(obs/new) = 78.28 / 75.53
 99%(obs/new) = 113.7 / 115.7

Sample 52.5

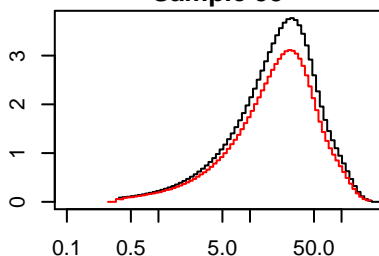


Sample 52.5 cumulative

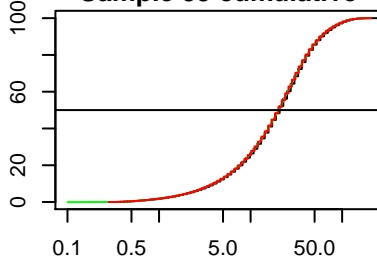


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 21.21 / 21.01
 1%(obs/new) = 0.74 / 0.73
 5%(obs/new) = 2.26 / 2.27
 25%(obs/new) = 10.06 / 9.74
 75%(obs/new) = 37.12 / 38.18
 95%(obs/new) = 78.28 / 82.26
 99%(obs/new) = 124.77 / 126

Sample 55

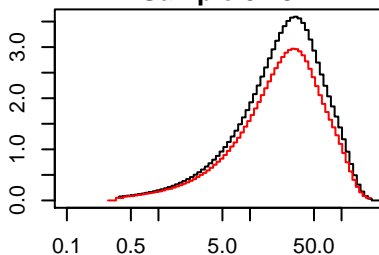


Sample 55 cumulative

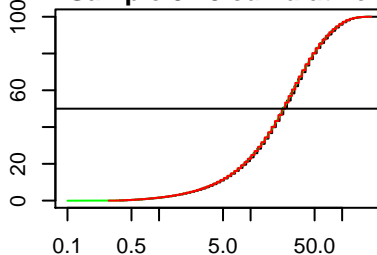


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 19.32 / 21.01
 1%(obs/new) = 0.74 / 0.73
 5%(obs/new) = 2.06 / 2.08
 25%(obs/new) = 9.16 / 9.74
 75%(obs/new) = 37.12 / 35.05
 95%(obs/new) = 78.28 / 82.26
 99%(obs/new) = 124.77 / 115.7

Sample 57.5

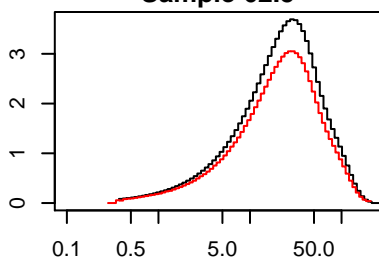


Sample 57.5 cumulative

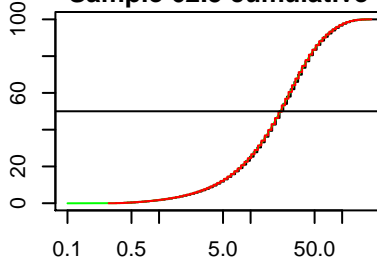


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 23.29 / 22.88
 1%(obs/new) = 0.74 / 0.73
 5%(obs/new) = 2.26 / 2.27
 25%(obs/new) = 11.04 / 10.61
 75%(obs/new) = 40.75 / 41.58
 95%(obs/new) = 94.34 / 89.58
 99%(obs/new) = 124.77 / 126

Sample 62.5

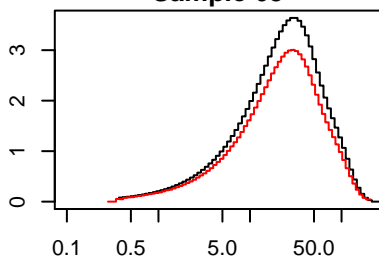


Sample 62.5 cumulative

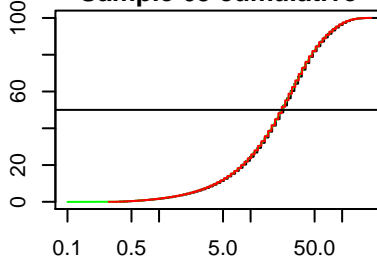


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 21.21 / 21.01
 1%(obs/new) = 0.74 / 0.73
 5%(obs/new) = 2.26 / 2.27
 25%(obs/new) = 10.06 / 9.74
 75%(obs/new) = 37.12 / 38.18
 95%(obs/new) = 85.94 / 82.26
 99%(obs/new) = 124.77 / 126

Sample 65

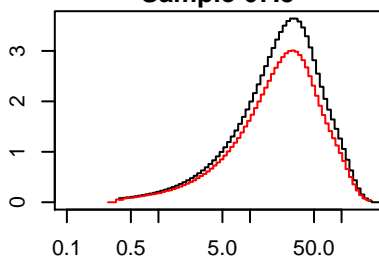


Sample 65 cumulative

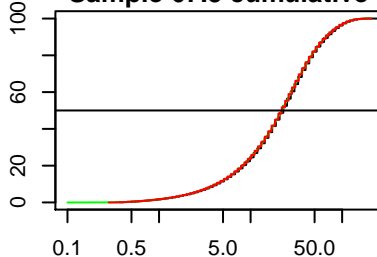


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 21.21 / 22.88
 1%(obs/new) = 0.74 / 0.73
 5%(obs/new) = 2.26 / 2.27
 25%(obs/new) = 10.06 / 10.61
 75%(obs/new) = 40.75 / 41.58
 95%(obs/new) = 85.94 / 89.58
 99%(obs/new) = 124.77 / 126

Sample 67.5

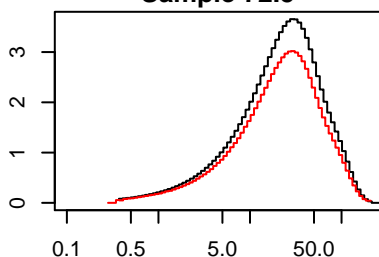


Sample 67.5 cumulative

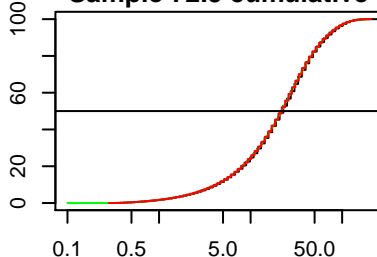


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 21.21 / 21.01
 1%(obs/new) = 0.74 / 0.73
 5%(obs/new) = 2.26 / 2.27
 25%(obs/new) = 10.06 / 10.61
 75%(obs/new) = 40.75 / 41.58
 95%(obs/new) = 85.94 / 89.58
 99%(obs/new) = 124.77 / 126

Sample 72.5

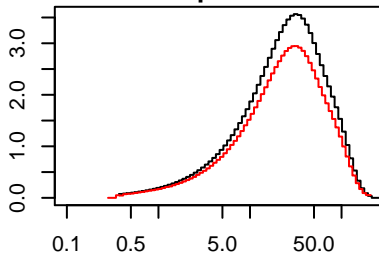


Sample 72.5 cumulative

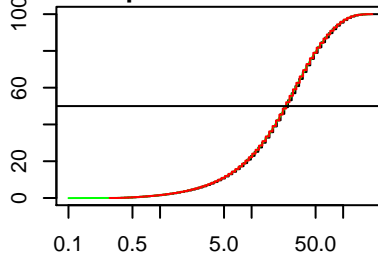


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 21.21 / 21.01
 1%(obs/new) = 0.74 / 0.73
 5%(obs/new) = 2.26 / 2.27
 25%(obs/new) = 10.06 / 10.61
 75%(obs/new) = 40.75 / 38.18
 95%(obs/new) = 85.94 / 89.58
 99%(obs/new) = 124.77 / 126

Sample 77.5

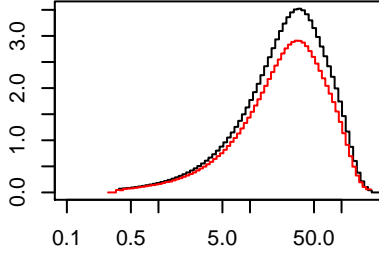


Sample 77.5 cumulative

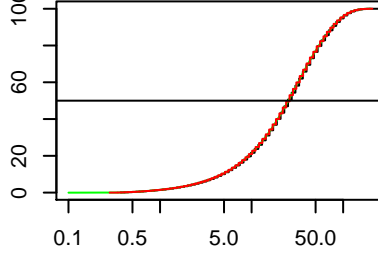


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 23.29 / 22.88
 1%(obs/new) = 0.74 / 0.73
 5%(obs/new) = 2.49 / 2.47
 25%(obs/new) = 11.04 / 10.61
 75%(obs/new) = 44.74 / 45.28
 95%(obs/new) = 94.34 / 89.58
 99%(obs/new) = 124.77 / 126

Sample 82.5

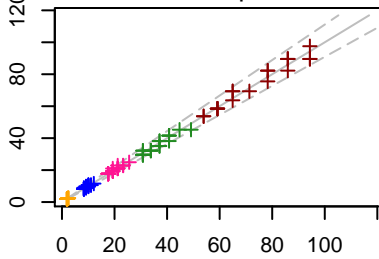


Sample 82.5 cumulative

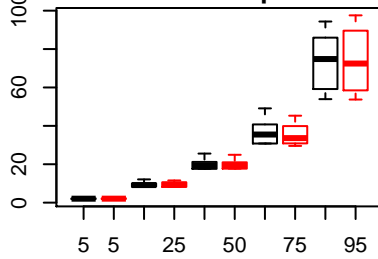


Sample statistics
 Mass conserved = 1
 Median(obs/new) = 25.56 / 24.92
 1%(obs/new) = 0.81 / 0.8
 5%(obs/new) = 2.49 / 2.47
 25%(obs/new) = 12.12 / 11.56
 75%(obs/new) = 49.11 / 45.28
 95%(obs/new) = 94.34 / 97.56
 99%(obs/new) = 136.97 / 137.21

5/25/50/75/95 percentiles



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Site statistics
 Percentiles Pearson's corr. = 0.975
 Mean normalized bias = 0