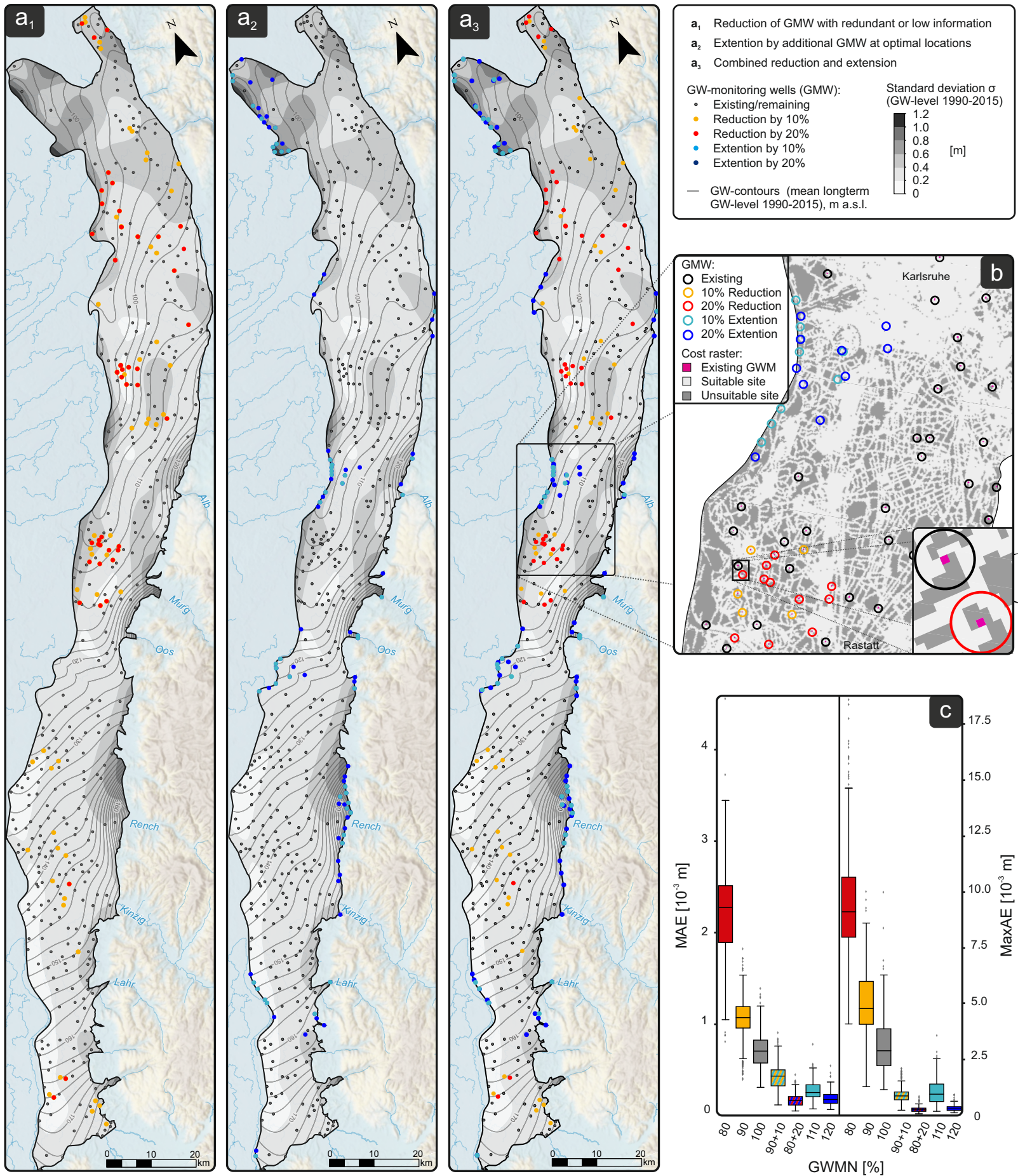
a1
a2
a3
N
Alb
Murg
Oos
Rench
Kinzig
Lahr
0 10 20 km
a1 Reduction of GMW with redundant or low information
a2 Extention by additional GMW at optimal locations
a3 Combined reduction and extension
GW-monitoring wells (GMW):
Existing/remaining
Reduction by 10%
Reduction by 20%
Extention by 10%
Extention by 20%
GW-contours (mean longterm GW-level 1990-2015), m a.s.l.
Standard deviation σ (GW-level 1990-2015)
1.2
1.0
0.8
0.6
0.4
0.2
0
[m]
b
GMW:
Existing
10% Reduction
20% Reduction
10% Extention
20% Extention
Cost raster:
Existing GWM
Suitable site
Unsuitable site
Karlsruhe
Rastatt
c
MAE [10^-3 m]
MaxAE [10^-3 m]
GWMN [%]
80
90
100
90+10
80+20
110
120