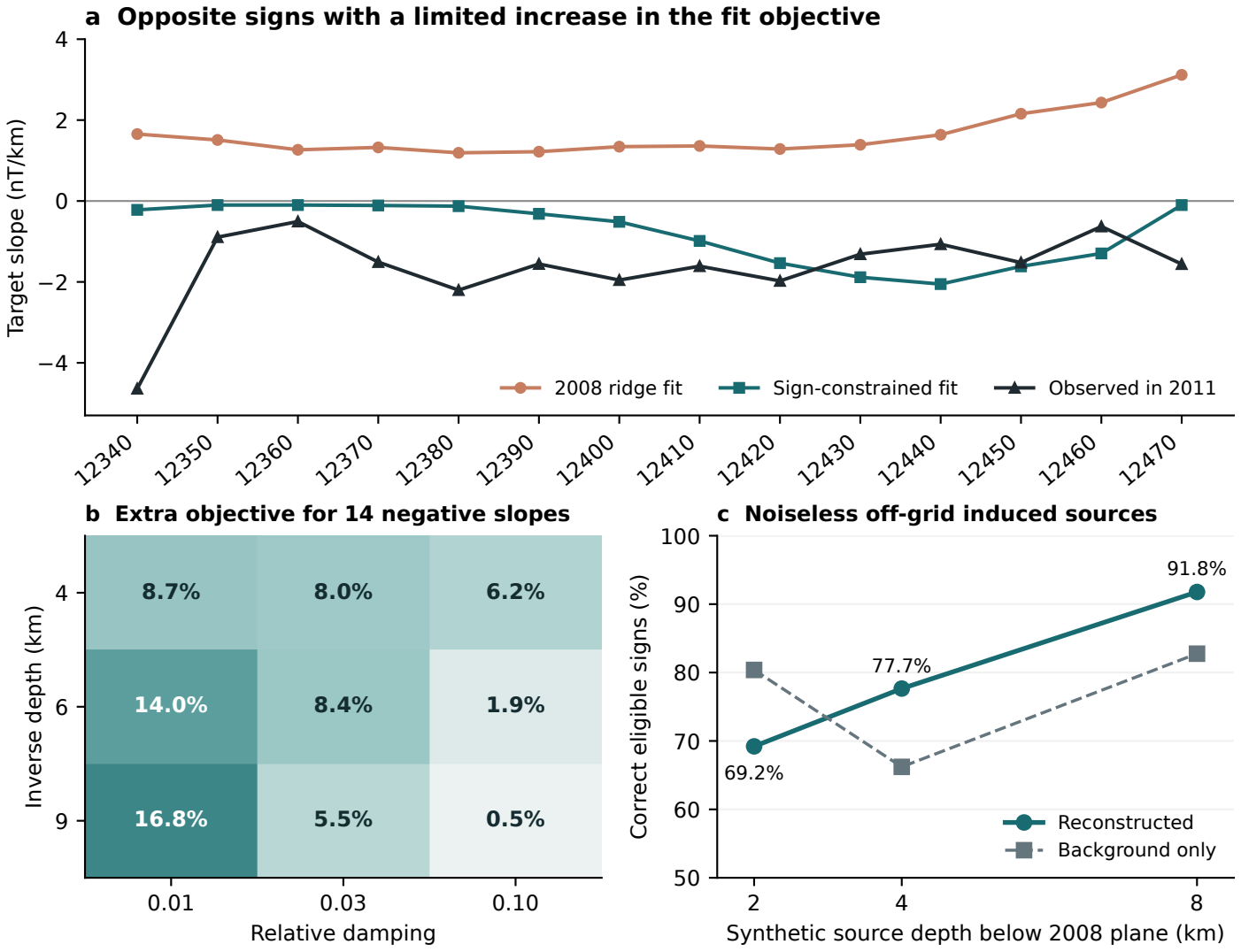

a Opposite signs with a limited increase in the fit objective
Target slope (nT/km)
4
2
0
−2
−4
2008 ridge fit
Sign-constrained fit
Observed in 2011
12340
12350
12360
12370
12380
12390
12400
12410
12420
12430
12440
12450
12460
12470
b Extra objective for 14 negative slopes
Inverse depth (km)
4
6
9
8.7%
8.0%
6.2%
14.0%
8.4%
1.9%
16.8%
5.5%
0.5%
0.01
0.03
0.10
Relative damping
c Noiseless off-grid induced sources
Correct eligible signs (%)
100
90
80
70
60
50
91.8%
77.7%
69.2%
Reconstructed
Background only
2
4
8
Synthetic source depth below 2008 plane (km)