Supplementary material

Figure S1: Wide-angle seismic sections used in this work. Each section was processed as in Fig. 3. Each section is shown without interpretation and with picked travel times.
Mostaganem

(a)
(k)
Figure S2: Correlation of the P-waves reflected from the top of the acoustic basement at near vertical incidence along MCS profile Spi02 and at wide-angle on OBS 14 and 9. The wide-angle reflection travel-times were used during the tomographic inversion.

Figure S3: Monte Carlo ensemble used as starting model for the simulation. To the left an ensemble of 100 initial Moho is derived randomly from the initial model obtained by forward modeling (red line) with a maximal variation of ±1 km. To the right, the initial 1-D model (red line) is used to derive 100 random initial models with a maximal variation de ±0.5 km/s.