



Figure S.4: (a) Synthetic model containing a 500 m thick 10  $\Omega\text{m}$  resistor 1.5 km beneath the seabed. This is followed by a 100  $\Omega\text{m}$  halfspace. (b) Inversion of synthetic data was able recover the 10  $\Omega\text{m}$  resistor in presence of the high resistivity half space beneath.